Connecting via Winsock to STN

Welcome to STN International! Enter x:x

FILE 'HOME' ENTERED AT 10:24:53 ON 31 JUL 2009

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=> d 14 L4 HAS NO ANSWERS L4 STR

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Structure attributes must be viewed using STN Express query preparation.

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FULL SCREEN SEARCH COMPLETED - 164889 TO ITERATE

100.0% PROCESSED 164889 ITERATIONS SEARCH TIME: 00.00.03 1351 ANSWERS

L5 1351 SEA SSS FUL L4

=> d scan

L5 1351 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN

IN 2,4-Thiazolidinedione, 5-[[1-[2-[4-[3-(4-chlorophenoxy)propy1]-1-piperaziny1]-2-oxoethy1]-1,2,3,4-tetrahydro-8-methoxy-2-oxo-5-quinoliny1]methy1]-

MF C29 H33 C1 N4 O6 S

PAGE 1-A

PAGE 2-A

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):end

=> file ca

=> d his

(FILE 'HOME' ENTERED AT 10:24:53 ON 31 JUL 2009)

Page 2

FILE 'CA' ENTERED AT 10:28:16 ON 31 JUL 2009

=> s 15 L6 59 L5

=> d ibib abs fhitstr 1-59

L6 ANSWER 1 OF 59 CA COPYRIGHT 2009 ACS on STN ACCESSION NUMBER: 150:423129 CA

TITLE: Synthesis of amides of 2,4-dioxothiazolidin-5-yl acetic acid with 1,2,4-triazole substituents

AUTHOR(S): Trotsko, Nazar; Dobosz, Maria; Chodkowska, Anna;
Jagiello-Woitowicz, Ewa

CORPORATE SOURCE: Department of Organic Chemistry, Medical University, Lublin, 20-081, Pol.

SOURCE: Acta Poloniae Pharmaceutica (2008), 65(2), 217-221 CODEN: APPHAX; ISSN: 0001-6837

PUBLISHER: Polish Pharmaceutical Society
DOCUMENT TYPE: Journal

DOCUMENT TYPE: Journal LANGUAGE: English

т

AB (2,4-Dioxothiazolidin-5-yl)acetyl chloride was used in alkylations of 1,2,4-triazole, 4-phenyl-1,2,4-triazolin-5-one, and 4-phenyl-1,2,4-triazolin-5-othione to yield the corresponding triazolyl and triazolinyl anides. Two of the title compds. were tested on the central nervous system (CNS) of mice. Compound I was shown to be the most active. II 11408/26-17-0P

RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of dioxo(thiazolidinyl)acetic acid amides with triazole substituents as central nervous system agents)

RN 1140826-17-0 CA

CN 2,4-Thiazolidinedione, 5-[2-(4,5-dihydro-5-oxo-4-phenyl-1H-1,2,4-triazol-1v1)-2-oxoethyl]- (CA INDEX NAME)

REFERENCE COUNT:

29 THERE ARE 29 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 2 OF 59 CA COPYRIGHT 2009 ACS on STN 149:215104 CA

ACCESSION NUMBER:

CORPORATE SOURCE:

TITLE: In vitro aldose reductase inhibitory activity of some

AUTHOR(S):

flavony1-2, 4-thiazolidinediones Das-Evcimen, Net; Bozdag-Dundar, Oya; Sarikaya, Mutlu; Ertan, Rahmive

Department of Biochemistry, Faculty of Pharmacy, Ankara University, Ankara, Turk.

SOURCE: Journal of Enzyme Inhibition and Medicinal Chemistry (2008), 23(3), 297-301

CODEN: JEIMAZ; ISSN: 1475-6366 Informa Healthcare

PUBLISHER: DOCUMENT TYPE: Journal

LANGUAGE: English

AB Aldose reductase (AR) is implicated to play a critical role in diabetes and cardiovascular complications because of the reaction it catalyzes. AR enzyme appears to be the key factor in the reduction of glucose to sorbitol. Synthesis and accumulation of sorbitol in cells due to AR activity is the main cause of diabetic complications, such as diabetic cataract, retinopathy, neuropathy and nephropathy. Aldose reductase inhibitors have been found to prevent sorbitol accumulation in tissues. Numerous compds. have been prepared to improve the pharmacol. profile of inhibition of aldose

reductase enzyme. In this study, seventeen flavonyl-2, 4-thiazolidinediones (flavonyl-2, 4-TZD) (Ia-e, IIa-e and IIIa-q) were tested for their ability to inhibit rat kidney AR. Compound Ib showed the highest inhibitory activity (88.69±1.46%) whereas Ia, IIa,

IIIa, IIIb also showed significant inhibitory activity (49.26±2.85, 67.29±1.09, 71.11±1.95, 64.86±1.21%, resp.).

380498-64-6 TT

> RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(aldose reductase inhibitory activity of some flavonvl-thiazolidinediones)

RN 380498-64-6 CA

2,4-Thiazolidinedione, 5-[(4-oxo-2-phenyl-4H-1-benzopyran-6-yl)methyl]-CN (CA INDEX NAME)

OS.CITING REF COUNT:

2 THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD (2 CITINGS)

REFERENCE COUNT:

29 THERE ARE 29 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 3 OF 59 CA COPYRIGHT 2009 ACS on STN 148:183460 CA

ACCESSION NUMBER: TITLE:

Carbostyril compound NF-kB inhibitors, and their therapeutic use

INVENTOR(S): PATENT ASSIGNEE(S): SOURCE:

Ishiyama, Hironobu; Ohta, Kazuhide Otsuka Pharmaceutical Co., Ltd., Japan PCT Int. Appl., 181 pp.

CODEN: PIXXD2 DOCUMENT TYPE: Patent

LANGUAGE: English FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PA	TENT	NO.			KIN	D	DATE				LICAT					ATE	
WO	2008	0106	01		A1		2008	0124			2007-					0070	718
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CA	2657	114			A1		2008	0124		CA	2007-	2657	114		2	0070	718
EP	2043	644			A1		2009	0408		EP	2007-	7684	67		2	0070	718
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			BA,									_					
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											2007-					0070	
OTHER S	OURCE	(S):			MAR	PAT	148:	1834	60			0 1					

G1

- AB The invention provides NF-kB inhibitors. The NF-kB inhibitors of the invention contain a carbostyril compound I (A = bond, lower alkylene, lower alkylidene; X = 0, S; R4, R5 = H; bond between 3 and 4 positions of carbostyril skeleton is single bond or double bond; R1 = H, etc; R2 = H, etc; R3 = H, etc.), or a salt thereof. The compds of the invention are useful for the prevention and treatment of NF-kB-associated diseases.
- RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

Ι

- (carbostyril compound NF- κB inhibitors, and therapeutic use) RN 882007-17-2 CA
- CN Carbamic acid, N-[4-[[5-[(2,4-dioxo-5-thiazolidinyl)methyl]-3,4-dihydro-8-methoxy-2-oxo-1(2H)-quinolinyl]methyl]phenyl]-, pentyl ester (CA INDEX NAME)

Me- (CH2) 4-0-C-NH

882007-17-2

REFERENCE COUNT: 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 4 OF 59 CA COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 147:522220 CA

TITLE: Carbostyril compounds and their preparation,

pharmaceutical compositions, and their transcription

promoting activity of TFF2 for treatment and/or

prevention of various diseases
INVENTOR(S): Kuroda, Takeshi; Yamauchi, Tak.

Kuroda, Takeshi; Yamauchi, Takahito; Shinohara, Tomokazu; Oshima, Kunio; Kitajima, Chiharu; Nagao, Hitoshi; Fukushima, Tae; Tomoyasu, Takahiro; Ishiyama,

Hironobu; Ota, Kazuhide; Takano, Masaaki; Sumida, Takumi; Miyamoto, Motoyuki

PATENT ASSIGNEE(S): Otsuka Pharmaceutical Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 338 pp.

CODEN: JKXXAF
DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2007291079 PRIORITY APPLN. INFO.:	A	20071108		20070327 20060327
OTHER SOURCE(S): GI	MARPAT	147:522220		

R5

AR The invention provides carbostvril compds, represented by formula (I) or salts thereof, and their pharmaceutical compns., prepns. and use for transcription promotion activity of TFF2. The carbostyril compds. or salts thereof, of the invention, induces the production of TFF, and thus are usable for the treatment and/or prevention of disorders such as alimentary tract diseases, oral diseases, upper respiratory tract diseases, respiratory tract diseases, eve diseases, cancers, and wounds. Compds. of formula I [wherein A is a bond, a lower alkylene group, or a lower alkylidene group; X is O or S; the dotted line is a single or a double bond; R4 and R5 are independently H, with the provision that dotted line is a double bond; or R4-R5 may be linked together to form a CH=CH-CH=CH group; R1 is H, lower alkyl, (un) substituted Ph lower alkyl, cycloalkyl lower alkyl, phenoxy lower alkyl, naphthyl lower alkyl, lower alkoxy lower alkyl, carboxyl lower alkyl, lower alkoxycarbonyl lower alkyl, (un) substituted pyridyl lower alkyl, cyano lower alkyl, etc.; R2 is H, lower alkoxy, lower alkyl, carboxy lower alkyl, lower alkoxycarbonyl lower alkoxy, HO, (un) substituted Ph lower alkoxy, (un) substituted piperidinyl(oxy) lower alkyl, lower alkenyloxy, (un)substituted pyridyl lower alkoxy, lower alkynyloxy, Ph lower alkenyloxy, Ph lower alkynyloxy, (un) substituted furyl lower alkoxy, (un) substituted oxadiazolyl lower alkyl, or (un) substituted thiazolyl lower alkoxy, etc.; R3 is H, lower (HO-substituted) alkyl, cycloalkyl lower alkyl, carboxyl lower alkyl, lower alkoxycarbonyl lower alkyl, (un) substituted Ph lower alkyl, naphthyl lower alkyl, (un) substituted furyl lower alkyl, (un) substituted thiazolyl lower alkyl, (un)substituted tetrazolyl, or (un)substituted benzothienyl, etc.; and their pharmaceutically acceptable salts] are claimed. Example compound (II) was prepared by heterocyclization of 2-chloro-3-(8-methoxy-1-methyl-2-oxo-1,2-dihydroquinolin-5-yl)propionic acid with thiourea. All the invention compds, were evaluated for the transcription promoting activity of hTFF2. From the assay, it was determined that some invention compds., including compound (III), showed TFF2 production activity of 1000% or higher at a test compound concentration of 10-6M concentration Some

invention compds. showed a TFF2 production promoting activity of 300% or higher at a test compound concentration is less than 10-5M and preferably more than

10-6M. Example compound III and a few other compds. showed >20% healing ratio of the ulcerated area, which indicated that these compds. may be effective in preventing and/or treating mucosal injury. 882007-14-9P

IΤ RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)

(drug candidate and intermediate; preparation of carbostyril compds. and their transcription promoting activity of TFF2 for treatment and/or prevention of various diseases)

RN 882007-14-9 CA

CN 2,4-Thiazolidinedione, 5-[[1,2,3,4-tetrahydro-8-methoxy-1-[(4nitrophenvl)methvl]-2-oxo-5-quinolinvl]methvl]- (CA INDEX NAME)

L6 ANSWER 5 OF 59 CA COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 147:385852 CA

TITLE: Preparation of quinolone derivatives as

P2Y12-inhibitors and platelet aggregation inhibitors Koga, Yuji; Okuda, Takao; Watanuki, Susumu, Kamikubo, Takashi; Hirayama, Fukushi; Moritomo, Hiroyuki;

Tujiyasu, Jiro; Kageyama, Michihito; Uemura, Toshio; Takasaki, Jun Astellas Pharma Inc., Japan

PATENT ASSIGNEE(S): Astellas Phar

SOURCE: PCT Int. Appl., 136pp.

CODEN: PIXXD2
DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1 PATENT INFORMATION:

	ENT I				KIN	D	DATE		i	APPL			NO.			ATE	
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		CN,	CO,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EC,	EE,	EG,	ES,	FI,	GB,	GD,
		GE,	GH,	GM,	GT,	HN,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	KE,	KG,	KM,	KN,
		KP,	KR,	KZ,	LA,	LC,	LK,	LR,	LS,	LT,	LU,	LY,	MA,	MD,	MG,	MK,	MN,
		MW,	MX,	MY,	MZ,	NA,	NG,	NI,	NO,	NZ,	OM,	PG,	PH,	PL,	PT,	RO,	RS,
		RU,	SC,	SD,	SE,	SG,	SK,	SL,	SM,	SV,	SY,	TJ,	TM,	TN,	TR,	TT,	TZ,
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	RW:	AT,	BE,	BG,	CH,	CY,	CZ,	DE,	DK,	EE,	ES,	FI,	FR,	GB,	GR,	HU,	ΙE,
		IS,	IT,	LT,	LU,	LV,	MC,	MT,	NL,	PL,	PT,	RO,	SE,	SI,	SK,	TR,	BF,
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ΑU	2007	2256	78		A1		2007	0920	- 1	AU 2	007-	2256	78		2	0070	314
CA	2645	711			A1		2007	0920		CA 2	007-	2645	711		2	0070	314

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EP	1995240			A1		2008	1126		EP	2007-	-7385	11		- 2	0070	314
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	IS,	ΙT,	LI,	LT,	LU,	LV,	MC,	MT,	NL	, PL,	PT,	RO,	SE,			
MX	20080117			A		2008	1114		MX	2008-	-1172	1		2	0080	912
IN	2008CN04	924		A		2009	0313		IN	2008-	-CN49	24		2	0080	916
CN	10140065	5		A		2009	0401		CN	2007-	-8000	9148		2	0080	916
NO	20080043	19		A		2008	1212		NO	2008-	-4319			2	0081	015
KR	20081108	18		A		2008	1219		KR	2008-	-7251	34		2	0081	015
PRIORIT	Y APPLN.	INFO.	:						JP	2006-	-7304	5		A 2	0060	316
									WO	2007-	JP55	040	1	W 2	0070	314
OTHER S	OURCE(S):			MARP	ΑT	147:	38585	52								

R² R³ O R⁵

R4

Ι

AB The title compds. I [R1 = cycloalky1, alkylenecycloalky1; the cycloalky1 molety in R1 may be (un)substituted; R2 = H, halo; R3 = H, halo, O-alkylene-ary1, etc.; R4 = alky1, haloalky1, (un)substituted cycloalky1, etc.; R5 = N02, CN, alky1, etc.; X = CH, N; A = CR?, N; R? = H, alky1; R4 and R7 may together form (un)substituted alkylene; a proviso is given] are prepared Thus, Et 4-([7-(cyclohexylamino)-1-cyclopenty1-6-fluoro-4-oxo-1, 4-dihydroquinol1n-3-y1]amino-4-oxobutanoate was prepared from 3-amino-7-(cyclohexylamino)-1-cyclopenty1-6-fluoroquinol1n-4(H)-one and 4-ethoxy-4-oxobutanoite acid. In an in vitro assay, compds. of this invention at 10 μM gave 64% to 97% inhibition of platelet aggregation.

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of quinolone derivs. as P2Y12-inhibitors and platelet aggregation inhibitors)

RN 950497-54-8 CA CN 2.4-Thiazolidine

2,4-Thiazolidinedione, 5-[[7-(cyclohexylamino)-1-cyclopentyl-6-fluoro-1,4-dihydro-4-oxo-3-quinolinyl]methyl]- (CA INDEX NAME)

REFERENCE COUNT: 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 6 OF 59 CA COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 144:370081 CA

TITLE: Carbostyril compounds and their preparation,
pharmaceutical compositions, and their transcription
promoting activity of TFP2 for treatment and/or

prevention of various diseases

INVENTOR(S): Kuroda, Takeshi; Yamauchi, Takahito; Shinohara,

Tomoichi; Oshima, Kunio; Kitajima, Chiharu; Nagao, Hitoshi; Fukushima, Tae; Tomoyasu, Takahiro; Ishiyama, Hironobu; Ohta, Kazuhide; Takano, Masaaki; Sumida

Takumi

PATENT ASSIGNEE(S): Otsuka Pharmaceutical Co., Ltd., Japan

SOURCE: PCT Int. Appl., 468 pp. CODEN: PIXXD2

DOCUMENT TYPE: Patent
LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1 PATENT INFORMATION:

PAT	ENT I	. OI			KIN)	DATE			APP	LICAT	ION	NO.		D.	ATE	
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		CN,	CO,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ	, EC,	EE,	EG,	ES,	FI,	GB,	GD,
		GE,	GH,	GM,	HR,	HU,	ID,	IL,	IN,	IS	, JP,	KE,	KG,	KM,	KΡ,	KR,	ΚZ,
		LC,	LK,	LR,	LS,	LT,	LU,	LV,	LY,	MA	, MD,	MG,	MK,	MN,	MW,	MX,	ΜZ,
		NA,	NG,	NI,	NO,	NZ,	OM,	PG,	PH,	PL	, PT,	RO,	RU,	SC,	SD,	SE,	SG,
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											2003-						

AR The invention provides carbostyril compds. represented by formula I or salts thereof, and their pharmaceutical compns., prepns. and use for transcription promotion activity of TFF2. The carbostyril compds. or salts thereof, of the invention, induces the production of TFF, and thus is usable for the treatment and/or prevention of disorders such as alimentary tract diseases, oral diseases, upper respiratory tract diseases, respiratory tract diseases, eye diseases, cancers, and wounds. Compds. of formula I wherein A is a bond, a lower alkylene group, or a lower alkylidene group; X is O or S; the dotted line is a single or a double bond; R4 and R5 are independently H, with the provision that dotted line is a double bond; or R4-R5 may be linked together to form a CH=CH-CH=CH group; R1 is H, lower alkyl, (un) substituted Ph lower alkyl, cycloalkyl lower alkyl, phenoxy lower alkyl, naphthyl lower alkyl, lower alkoxy lower alkyl, carboxyl lower alkyl, lower alkoxycarbonyl lower alkyl, (un) substituted pyridyl lower alkyl, cyano lower alkyl, etc.; R2 is H, lower alkoxy, lower alkyl, carboxy lower alkyl, lower alkoxycarbonyl lower alkoxy, HO, (un) substituted Ph lower alkoxy, (un) substituted piperidinyl(oxy) lower alkyl, lower alkenyloxy, (un)substituted pyridyl lower alkoxy, lower alkynyloxy, Ph lower alkenyloxy, Ph lower alkynyloxy, (un) substituted furyl lower alkoxy, (un) substituted oxadiazolyl lower alkyl, or (un) substituted thiazolyl lower alkoxy, etc.; R3 is H, lower (HO-substituted) alkyl, cycloalkyl lower alkyl, carboxyl lower alkyl, lower alkoxycarbonyl lower alkyl, (un) substituted Ph lower alkyl, naphthyl lower alkyl, (un) substituted furyl lower alkyl, (un) substituted thiazolyl

10/582014

lower alkyl, (un)substituted tetrazolyl, or (un)substituted benzothienyl, etc.; and their pharmaceutically acceptable salts are claimed. Example compound II was prepared by heterocyclization of

2-chloro-3-(8-methoxy-l-methyl-2-oxo-1,2-dihydroquinolin-5-yl)propionic acid with thiourea. All the invention compds. were evaluated for the transcription promoting activity of hTFF2. From the assay, it was determined that some invention compds., including compound III, showed TFF2 production activity of 1000% or higher at a test compound concentration of 10-6%

concentration Some invention compds. showed a TFF2 production promoting activity of 300% or higher at a test compound concentration is less than 10-5M and preferably more

than

CN

10-6M. Example compound III and a few other compds. showed >20% healing ratio of the ulcerated area, which indicated that these compds. may be effective in preventing and/or treating mucosal injury.

IT 882007-14-9P

RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)

(drug candidate and intermediate; preparation of carbostyril compds. and their transcription promoting activity of TFF2 for treatment and/or prevention of various diseases)

RN 882007-14-9 CA

2,4-Thiazolidinedione, 5-[[1,2,3,4-tetrahydro-8-methoxy-1-[(4-nitrophenyl)methyl]-2-oxo-5-quinolinyl]methyl]- (CA INDEX NAME)

OS.CITING REF COUNT:

2 THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD (2 CITINGS)

REFERENCE COUNT:

11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 7 OF 59 CA COPYRIGHT 2009 ACS on STN ACCESSION NUMBER: 144:311959 CA Organic reactions in ioni-

144:311959 CA Organic reactions in ionic liquids. Ionic liquid-accelerated facile synthesis of 3-alkyl-2,4-thiazolidinediones

AUTHOR(S): Yang, De-Hong; Yang, Ben-Yong; Chen, Zhen-Chu; Chen,

Song-Ying; Zheng, Qin-Guo

CORPORATE SOURCE: Department of Materials and Chemistry, Zhongyuan

University of Technology, Zhengzhou, 450007, Peop. Rep. China

SOURCE: Journal of Chemical Research (2005), (8), 492-494
CODEN: JCROA4

PUBLISHER: Science Reviews

DOCUMENT TYPE: Journal LANGUAGE: English

OTHER SOURCE(S): CASREACT 144:311959

AB The room temperature ionic liquid [bmim]PF6 is a new green solvent for the N-alkylation of 2,4-thiazolidinones. Significant rate enhancement and

improved yields were observed

IT 880090-57-3

RL: RCT (Reactant); RACT (Reactant or reagent)

(ionic liquid-accelerated preparation of 3-alkyl-2,4-thiazolidinediones by N-alkylation of 2,4-thiazolidinones with alkyl halides)

RN 880090-57-3 CA

CN [3,5':5',3''-Terthiazolidine]-2,2',2'',4,4',4''-hexone,
5,5''-bis(phenylmethylene)- (9CI) (CA INDEX NAME)

OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)

REFERENCE COUNT: 30 THERE ARE 30 CITED REFERENCES AVAILABLE FOR THIS

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 8 OF 59 CA COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 141:301422 CA

TITLE: Preparation of heterocyclic ligands for

acid-stabilized insulin analogs

INVENTOR(S): Ostergaard, Soren; Olsen, Helle Birk; Kaarsholm, Niels C.; Madsen, Peter; Jakobsen, Palle; Ludvigsen, Svend;

Schluckebier, Gerd; Steensgaard, Dorte Bjerre;

Petersen, Anders Klarskov

PATENT ASSIGNEE(S): Novo Nordisk A/S, Den. SOURCE: PCT Int. Appl., 473 pp.

CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE

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D.	ΙO	2004	0804	30		A1		2004	0923		WO	2004-	DK15	8		2	0040	311
		W:	AE,	AG,	AL,	AM,	AT,	AU,	AZ,	BA,	BE	BG,	BR,	BW,	BY,	BZ,	CA,	CH,
			CN,	CO,	CR,	CU,	CZ,	DE,	DK,	DM,	D2	EC,	EE,	EG,	ES,	FI,	GB,	GD,
			GE,	GH,	GM,	HR,	HU,	ID,	IL,	IN,	15	, JP,	KE,	KG,	KP,	KR,	KZ,	LC,
			LK,	LR,	LS,	LT,	LU,	LV,	MA,	MD,	MG	, MK,	MN,	MW,	MX,	MZ,	NA,	NI,
			NO,	NZ,	OM,	PG,	PH,	PL,	PT,	RO,	RU	J, SC,	SD,	SE,	SG,	SK,	SL,	SY,
			TJ,	TM,	TN,	TR,	TT,	TZ,	UA,	UG,	US	, UZ,	VC,	VN,	YU,	ZA,	ZM,	ZW
		RW:	BW,	GH,	GM,	KE,	LS,	MW,	MZ,	SD,	SI	, SZ,	TZ,	UG,	ZM,	ZW,	AM,	ΑZ,
			BY,	KG,	ΚZ,	MD,	RU,	TJ,	TM,	AT,	BE	, BG,	CH,	CY,	CZ,	DE,	DK,	EE,
			ES,	FI,	FR,	GB,	GR,	HU,	IE,	IT,	LU	J, MC,	NL,	PL,	PT,	RO,	SE,	SI,
			SK,	TR,	BF,	ВJ,	CF,	CG,	CI,	CM,	G₽	, GN,	GQ,	GW,	ML,	MR,	NE,	SN,
			TD,															
												2004-						
												2004-						
E	EΡ	1610	812			A1		2006	0104		EΡ	2004-	7193	68		2	0040	311
		R:	AT,	BE,	CH,	DE,	DK,	ES,	FR,	GB,	GF	, IT,	LI,	LU,	NL,	SE,	MC,	PT,
												, TR,						
E	3R	2004	0082	29		A		2006	0221		BR	2004-	8229			2	0040	311
(CN	1787	833			A		2006	0614		CN	2004- 2006-	8001	2690		2	0040	311
Ċ	JΡ	2007	5238	12		T		2007	0823									
		2005										2005-						
												2005-						
		2005				A		2005	1117			2005-						
PRIORI	ľΤ	APP:	LN. :	INFO	. :							2003-					0030	
												2003-					0030	
											WO	2004-	DK15	В		A 2	0040	311
OTHER	SC	HIRCE	(8) .			MARI	тдс	141 •	30141	22								

OTHER SOURCE(S): MARPAT 141:301422

AB Novel ligands for the His-B10 Zn2+ sites of the R-state insulin hexamer that are capable of prolonging the action of insulin prepns. are

disclosed. A mixture of 4-aminobenzonitrile, sodium azide and ammonium chloride in DMF was heated at 125° for 16 h. The cooled mixture was filtered and the filtrate was concentrated to give

5-(4-aminopheny1)-2H-tetrazole. This was used as the ligand for His-B10 Zn2+ sites of the R-state insulin hexamer.

IT 882007-10-5

RL: PRPH (Prophetic)

(Preparation of heterocyclic ligands for acid-stabilized insulin

RN 882007-10-5 CA

CN 2,4-Thiazolidinedione, 5-[(1,2-dihydro-2-oxo-3-quinolinyl)methyl]- (CA INDEX NAME)

OS.CITING REF COUNT: 3 THERE ARE 3 CAPLUS RECORDS THAT CITE THIS RECORD (3 CITINGS)

REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 9 OF 59 CA COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 141:106476 CA

TITLE: Preparation of heterocyclic compounds as ligands for

stabilizing insulin compositions

INVENTOR(S): Kaarsholm, Niels Christian; Madsen, Peter; Schlein, Morten; Olsen, Helle Birk; Havelund, Svend;

Steensgaard, Dorte Bjerre; Ludvigsen, Svend; Jakobsen, Palle; Petersen, Anders Klarskov; Schluckebier, Gerd

PATENT ASSIGNEE(S): Novo Nordisk A/S, Den. SOURCE: PCT Int. Appl., 432 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1 PATENT INFORMATION:

	PATENT											ION				ATE		
W	TO 200	40563	47		A2		2004	0708								0031	222	
W	TO 200	40563	47		A3		2004	0812										
	W:	ΑE,	AG,	AL,	AM,	AT,	AU,	AZ,	BA,	BB,	BG,	BR,	BW,	BY,	BZ,	CA,	CH,	
		CN.	CO.	CR.	CU.	CZ.	DE,	DK.	DM.	DZ.	EC.	EE.	EG.	ES.	FI.	GB.	GD.	
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							UA,										10,	
	DW	: BW,															7.17	
	PW																	
							TJ,											
							HU,											
							CI,											TG
	AU 200																	
	EP 158									EP 2	003-	7674	88		2	0031	222	
Ε	EP 158	5541			B1		2007	1114										
	R:	ΑT,	BE,	CH,	DE,	DK,	ES,	FR,	GB,	GR,	IT,	LI,	LU,	NL,	SE,	MC,	PT,	
		IE,	SI,	LT,	LV,	FI,	RO,	MK,	CY,	AL,	TR,	BG,	CZ,	EE,	HU,	SK		
J	JP 200	65169	66		T		2006	0713		JP 2	005-	5025	27		2	0031	222	
A	JP 200 AT 378	063			T		2007	1115		AT 2	003-	7674	88		2	0031	222	
E	S 229	7227			Т3		2008	0501		ES 2	003-	7674	88		2	0031	222	
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31

^{*} STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB The present invention provides pharmaceutical compns. comprising insulin and novel ligands for the His BlO 2n2+ sites of the R-state insulin hexamer. The ligands belong to different subclasses of compds., e.g., benzotriazoles, 3-hydroxy-2-naphthoic acids, salicylic acids, tetrazoles, thiazolidinediones, 5-mercaptotetrazoles, or 4-cyano-1,2,3-triazoles. Methods for preparing the various classes of ligands included amidation, condensation, and coupling reactions. Compds. of the invention I-IX were

evaluated for affinity to the zinc site with Kd values ranging from 3-3,879 nM. Addnl., I-IX were evaluated for retention of fast absorption characteristics of formulations stabilized by addition of ligands and chemical stability of insulin formulations. The resulting prepns. have improved phys. and chemical stability.

882007-10-5 RL: PRPH (Prophetic)

> (Preparation of heterocyclic compounds as ligands for stabilizing insulin compositions)

882007-10-5 CA

CN 2,4-Thiazolidinedione, 5-[(1,2-dihydro-2-oxo-3-quinolinyl)methyl]- (CA INDEX NAME)

OS.CITING REF COUNT: THERE ARE 4 CAPLUS RECORDS THAT CITE THIS RECORD

(4 CITINGS) REFERENCE COUNT: THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 10 OF 59 CA COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 141:923 CA

TITLE: Studies on some glitazones having pyridine as the

linker unit Ramachandran, Uma; Mital, Alka; Bharatam, Prasad V.; AUTHOR(S):

Khanna, Smriti; Rao, Poduri Rama; Srinivasan,

Krishnamoorthy; Kumar, Rakesh; Chawla, Harmander Pal Singh; Lal Kaul, Chaman; Raichur, Suryaprakash;

Chakrabarti, Ranjan Department of Pharmaceutical Technology, National

Institute of Pharmaceutical Education and Research

(NIPER), S.A.S. Nagar, 160 062, India

Bioorganic & Medicinal Chemistry (2004), 12(4),

655-662

CODEN: BMECEP; ISSN: 0968-0896

PUBLISHER: Elsevier Ltd.

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 141:923

Mol. modeling on various well-known glitazones carrying a pyridine ring instead of benzene ring as the middle linker unit showed conformational rigidity as compared to their parent mols. Blocking the lone pair of electrons on the pyridine N, made them flexible once again. A few representatives of these analogs were synthesized and their efficacy as PPARy agonists evaluated.

695171-50-7P

CORPORATE SOURCE:

SOURCE:

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)

(glitazones having pyridine as the linker unit, their preparation and PPARy agonist activity)

RN 695171-50-7 CA

CN 2,4-Thiazolidinedione, 5-[[6-[2-(5-ethyl-2-pyridinyl)ethoxy]-1-oxido-3pyridinyl]methyl]- (CA INDEX NAME)

PAGE 1-A

PAGE 2-A

11 THERE ARE 11 CAPLUS RECORDS THAT CITE THIS

RECORD (11 CITINGS)

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33 THERE ARE 33 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

ANSWER 11 OF 59 CA COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 140:287404 CA TITLE:

OS.CITING REF COUNT:

REFERENCE COUNT:

INVENTOR(S):

Preparation of five-membered heterocyclic compounds for treatment of obesity, diabetes, hyperlipidemia,

Momose, Yu; Takakura, Nobuyuki; Maekawa, Tsuyoshi;

Odaka, Hiroyuki; Kimura, Hiroyuki

PATENT ASSIGNEE(S): Takeda Chemical Industries, Ltd., Japan

SOURCE: PCT Int. Appl., 442 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PA		NO.									LICAT					ATE	
WO											2003-					0030	909
	W:	ΑE,	AG,	AL,	AM,	AT,	ΑU,	ΑZ,	BA,	BB	, BG,	BR,	BY,	ΒZ,	CA,	CH,	CN,
		CO,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EC	, EE,	ES,	FI,	GB,	GD,	GE,	GH,
		GM,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	KE	, KG,	KR,	ΚZ,	LC,	LK,	LR,	LS,
		LT,	LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW	, MX,	ΜZ,	NΙ,	NO,	ΝZ,	OM,	PG,
		PH,	PL,	PT,	RO,	RU,	SC,	SD,	SE,	SG	, SK,	SL,	SY,	TJ,	TM,	TN,	TR,
		TT,	TZ,	UA,	UG,	US,	UZ,	VC,	VN,	YU	, ZA,	ZM,	zw				
	RW:	GH,	GM,	KE,	LS,	MW,	MZ,	SD,	SL,	SZ	, TZ,	UG,	ZM,	ZW,	AM,	ΑZ,	BY,
		KG,	ΚZ,	MD,	RU,	ΤJ,	TM,	AT,	BE,	BG	, CH,	CY,	CZ,	DE,	DK,	EE,	ES,
		FI,	FR,	GB,	GR,	HU,	IE,	IT,	LU,	MC	, NL,	PT,	RO,	SE,	SI,	SK,	TR,
											, GW,						
JP	2004	1237	32		A		2004	0422		JP	2003-	3164	75		2	0030	909
AU	2003	2620	23		A1		2004	0430		AU	2003-	2620	23		2	0030	909
EP	1541	564			A1		2005	0615		EP	2003-	7953	38		2	0030	909
	R:										, IT,						PT,
		IE,	SI,	LT,	LV,	FI,	RO,	MK,	CY,	AL	, TR,	BG,	CZ,	EE,	HU,	SK	
US	2006	0135	578		A1		2006	0622		US	2005-	5274	26		2	0050	310
US	7368	578			B2		2008	0506									
PRIORIT	Y APP	LN.	INFO	. :						JP	2002-	2647	03	- 2	A 2	0020	910
										WO	2003-	JP11	511	1	й 2	0030	909
OTHER S	OURCE	(S):			MAR	PAT	140:	2874	04								



- AB The title compds. I [Rl is a group derived from an optionally substituted five-membered heterocycle; X, Y and V are each independently oxygen, sulfur, or the like; Q is a divalent hydrocarbon group having 1 to 20 carbon atoms; A is an aromatic ring which may have one to three addnl. substituents; Z is (CH2)ral or 21(CH2)n (wherein n is an integer of 0 to 8 and Z1 is oxygen, sulfur, or the like); B is a nitrogenous heterocycle which may have one to three addnl. substituents; W is a bond or a divalent hydrocarbon group having 1 to 20 carbon atoms; and R2 is hydrogen, cyano, PO(OR9)(OR10) (wherein R9 and R10 are each independently hydrogen or optionally substituted hydrocarbyl, or R9 and R10 may be united to form an optionally substituted ring), or the likel are prepared. In a binding assay for the human PPAR y1 receptors, compds. of this invention showed IC50 values of 7.4 nM to 7300 nM. Formulations are given.

 IT 675148-07-9P
- RI: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of five-membered heterocyclic compds. for treatment of obesity, diabetes, hyperlipidemia, etc.)

RN 675148-07-9 CA

2,4-Thiazolidinedione, 5-[(2,3-dihydro-3-oxo-1-phenyl-1H-pyrazol-4-y1)methyl]-3-methyl- (CA INDEX NAME)

CN

OS.CITING REF COUNT: 3 THERE ARE 3 CAPLUS RECORDS THAT CITE THIS RECORD (3 CITINGS)

REFERENCE COUNT: 65 THERE ARE 65 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 12 OF 59 CA COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 140:111336 CA

TITLE: Multi-component synthesis of pyran-annulated thiazoles

under solvent-free microwave irradiation AUTHOR(S):

Yadav, Lal Dhar S.; Singh, Amrish CORPORATE SOURCE: Department of Chemistry, University of Allahabad,

Allahabad, 211 002, India

SOURCE: Synthesis (2003), (15), 2395-2399

CODEN: SYNTBF; ISSN: 0039-7881

PUBLISHER: Georg Thieme Verlag

DOCUMENT TYPE: Journal LANGUAGE: English

OTHER SOURCE(S):

CASREACT 140:111336 A three-component one-pot reaction of glycine, acetic anhydride, and

5-arylidenerhodanines yields dihydropyrano[2,3-d]thiazolethiones

stereoselectively under microwave irradiation and without solvent. 645611-71-8P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(intermediate in the stereoselective preparation of

dihydropyrano[2,3-d]thiazolethiones by three-component solvent-free cyclocondensation reactions of glycine, acetic anhydride, and

5-(arvlmethylene)rhodanines under microwave irradiation)

645611-71-8 CA RN

CN 5(4H)-Oxazolone, 2-methyl-4-[(R)-[(5R)-4-oxo-3-phenyl-2-thioxo-5thiazolidinyl]phenylmethyl]-, (4S)-rel- (CA INDEX NAME)

Relative stereochemistry.

OS.CITING REF COUNT:

6 THERE ARE 6 CAPLUS RECORDS THAT CITE THIS RECORD (6 CITINGS)

REFERENCE COUNT:

25 THERE ARE 25 CITED REFERENCES AVAILABLE FOR THIS RECORD, ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 13 OF 59 CA COPYRIGHT 2009 ACS on STN ACCESSION NUMBER: TITLE:

139:6791 CA

Zdorov'ya

Synthesis of potential biologically active substances on the base of 5-carboxymethylidene-2,4-thiazolidinedione

AUTHOR(S): CORPORATE SOURCE: SOURCE:

Lesik, R. B.; Zimenkovs'kii, B. S. L'viv. Derzhavnii Med. Univ., Lvov, Ukraine Farmatsevtichnii Zhurnal (Kiev) (2002), (4), 64-68 CODEN: FRZKAP; ISSN: 0367-3057

ΙI

PUBLISHER: DOCUMENT TYPE: LANGUAGE: OTHER SOURCE(S):

Journal Ukrainian CASREACT 139:6791

AB A series of (2,4-dioxo-5-thiazolidinylidene) acetic acid derivs. I (R1 = 2-MeC6H4NH, 2-HOC6H4CONHNH, piperidino, PhCH2NH, 4-OHCC6H4O, etc.) and two bis(thiazolidinedione)s II (R2 = H, EtO2CCH2) were synthesized as potential biol. active compds.

313666-65-8P, [5,5'-Bithiazolidine]-2,2',4,4'-tetrone RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of bis(thiazolidinedione)s and esters, amides, and hydrazides of (dioxothiazolidinylidene)acetic acid) 313666-65-8 CA

RN

CN [5.5'-Bithiazolidine]-2.2',4.4'-tetrone (CA INDEX NAME)



L6 ANSWER 14 OF 59 CA COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 139:6779 CA

TITLE: Product class 17: thiazoles

AUTHOR(S): Kikelj, D.; Urleb, U.

CORPORATE SOURCE:

Fac. Pharm., University Ljubljana, Slovenia SOURCE:

Science of Synthesis (2002), 11, 627-833 CODEN: SSCYJ9

Georg Thieme Verlag PUBLISHER:

DOCUMENT TYPE: Journal: General Review

English LANGUAGE:

A review of synthetic methods to prepare thiazoles as well as reactive

modifications of thiazole moieties.

533885-79-9P

RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of thiazoles and reactions thereof)

RN 533885-79-9 CA

CN 4-Thiazolidinone, 5,5'-ethylidenebis[2-thioxo- (CA INDEX NAME)



ACCESSION NUMBER:

OS.CITING REF COUNT: 16 THERE ARE 16 CAPLUS RECORDS THAT CITE THIS

RECORD (16 CITINGS)

REFERENCE COUNT: 1224 THERE ARE 1224 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE

FORMAT

L6 ANSWER 15 OF 59 CA COPYRIGHT 2009 ACS on STN

136:31520 CA

TITLE: Synthesis and hypoglycemic activity of some new

flavone derivatives: 4th communication:

6-flavonyl-2,4-thiazolidinediones

Bozdag-Dundar, Oya; Waheed, Abdul; Verspohl, Eugen J.; AUTHOR(S):

Ertan, Rahmiye

CORPORATE SOURCE: Department of Pharmaceutical Chemistry, Faculty of Pharmacy, Ankara University, Ankara, Turk.

SOURCE: Arzneimittel-Forschung (2001), 51(8), 623-627

CODEN: ARZNAD; ISSN: 0004-4172

PUBLISHER: Editio Cantor Verlag CN

DOCUMENT TYPE: Journal LANGUAGE: English

AB Several of the flavonyl compds. prepared showed insulinotropic activities in INS-1 cells.

T 380498-64-6P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(synthesis and hypoglycemic activity of 6-flavonyl-2,4-thiazolidinediones)

RN 380498-64-6 CA

2,4-Thiazolidinedione, 5-[(4-oxo-2-phenyl-4H-1-benzopyran-6-yl)methyl]-(CA INDEX NAME)

$$0 \underset{H}{\overset{\$}{\bigvee}} CH_2 \underset{0}{\overset{\bullet}{\bigvee}} Ph$$

OS.CITING REF COUNT: 5 THERE ARE 5 CAPLUS RECORDS THAT CITE THIS RECORD

(5 CITINGS)
REFERENCE COUNT: 17 THERE ARE 17 CITED REFERENCES AVAILABLE FOR THIS

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 16 OF 59 CA COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 135:148239 CA

TITLE: DNA encoding human chimeric oncoprotein PAX8-PPARy found in thyroid follicular

carcinomas
INVENTOR(S): Kroll, Todo

INVENTOR(S): Kroll, Todd G.; Fletcher, Jonathan A.
PATENT ASSIGNEE(S): Brigham and Women's Hospital, Inc., USA

SOURCE: PCT Int. Appl., 144 pp. CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT	NO.	KIN	D DATE	APPLICATION NO.	DATE
WO 2001 WO 2001		A2 A3			20010118
	BR, CA, AT, BE, PT, SE,	CH, CY,	DE, DK, ES,	FI, FR, GB, GR, IE,	IT, LU, MC, NL,
US 2002 US 6723	0106796 506	A1 B2	20020808 20040420		20010118
IORITY APP	LN. INFO	.:		US 2000-177109P US 2000-225079P	P 20000120 P 20000814

AB An oncogene designated PAX8-PPARyl contains a PAX8 coding region fused to PPARy coding region. To define the biochem. nature of t(2;3)(q13;p25) observed in follicular thyroid carcinoma, the 3p25 and the 2q13 translocation breakpoints were mapped using dual color fluorescence

PRI

in situ hybridization. Mol. characterization of PAX8-PPARy1 mols. provides nucleotide and amino acid sequences useful for detection and treatment of certain tumors, particularly thyroid follicular carcinomas. 350685-90-4D, alkyl derivs.

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses) (DNA encoding human chimeric oncoprotein PAX8-PPARy found in thyroid follicular carcinomas)

350685-90-4 CA

CN 2,4-Thiazolidinedione, 5-[(1,6-dihydro-6-oxo-3-pyridinyl)methyl]- (CA INDEX NAME)

L6 ANSWER 17 OF 59 CA COPYRIGHT 2009 ACS on STN 134:353303 CA

ACCESSION NUMBER:

TITLE: INVENTOR(S):

SOURCE:

PATENT ASSIGNEE(S):

preparation of thiazolidinyl-containing bicyclic

heterocycles as humane peroxisome proliferator-activated receptor y agonists

Nomura, Masahiro; Murakami, Koji; Kakuta, Masaki

Kyorin Pharmaceutical Co., Ltd., Japan

Jpn. Kokai Tokkyo Koho, 7 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1 PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE JP 2000-242708 20000810 JP 1999-235531 A 19990823 JP 2001131173 A 20010515 PRIORITY APPLN. INFO.: OTHER SOURCE(S): MARPAT 134:353303 GI

- AB Title compds. I (YX = CO2, CH2O, CH:CH), their pharmaceutically acceptable salts, or hydrates, useful as for treatment of Type II diabetes and hyperlipemia, are prepared 2-Hydroxy-5-[(2,4-dioxothiazolidin-5-y1)methyl]-N-[(4-trifluorophenyl)methyl]benzamide was reacted with trioxane in the presence of AcOH in CH2Cl2 at room temperature for 2 day to give 42% 6-[(2,4-dioxothiazolidin-5-y1)methyl]-3-[(4-trifluorophenyl)methyl]-1,3-benzoxazin-4-one showing good transcription activity of proliferator-activated receptor y in vitro.
- IT 339152-88-4P RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); IMF (Industrial manufacture); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of bicyclic heterocycles as humane peroxisome proliferator-activated receptor γ agonists)

- RN 339152-88-4 CA
- CN 2H-1,3-Benzoxazine-2,4(3H)-dione, 6-[(2,4-dioxo-5-thiazolidinyl)methyl]-3[[4-(trifluoromethyl)phenyl]methyl]- (CA INDEX NAME)

$$\begin{array}{c|c} \mathbf{F_{3}C} & & & \\ & \mathbf{CH_{2}-N} & & \\ & & \mathbf{CH_{2}-N} & \\ & & \mathbf{N} \\ & & \mathbf{H} \end{array}$$

L6 ANSWER 18 OF 59 CA COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 133:288780 CA

TITLE: Silver halide photographic emulsion containing

merocyanine dye
INVENTOR(S): Kobayashi, Kazuhisa

PATENT ASSIGNEE(S): Mitsubishi Paper Mills, Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 14 pp.

CODEN: JKXXAF
DOCUMENT TYPE: Patent

LANGUAGE: Japanese FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

GI

AB The title photog. material possesses, on ≥1 side of a support, a Ag halide emulsion layer containing ≥2 kinds of Ag halide grains both of which are different at least in grain diameter and are sensitized with ≥1 sensitizing dye selected from I and II [Z1, Z2 = III-V {Y4 = 0, S, Se, NR13; R4, R13 = (substituted) alkyl; R5, R6 = H, OH, halo, alkyl, alkenyl, alkoxy, alkylthio, arylthio, aryl, acyl, acyloxy, alkoxycarbonyl, alkylsulfonyl, carbamoyl, sulfamoyl, CO2H, CN (these substituents may be substituted), R5 and R6 may link each other to form an aliphatic or aromatic ring which may be substituted; R7, R9 = (substituted) alkyl; R8 = alkyl, alkenyl, alkoxy, sulfo, halo; when m ≥ 2, the plural R8 groups are the same or different and may link each other to form a ring}; Y1 = O, S, Se, NR11; Y2, Y3 = O, S, Se, NR12; L1. L2 = (substituted) methine; n = 1 or 2; R1-3, R11, R12 = (substituted) alkyl; ≥1 of R1 and R4 (when Z1 = III), ≥ 1 of R1 and R7 (when Z1 = IV), ≥ 1 of R1 and R9 (when Z1 = V), ≥ 1 of R2-4 (when Z2 = III), ≥ 1 of R2, R3, and R7 (when Z2 = IV), and ≥ 1 of R2, R3, and R9 (when Z2 = V) are substituted with water-soluble groups; M1, M2 = counter ion] and the slope is <3 over the whole region of the characteristic curve obtained by plot of optical d. against the logarithm of exposure upon exposure using a laser beam of wavelength 600-700 nm. The material shows low residual color stain and stable gradation reproducibility. 299186-19-9

RL: DEV (Device component use); USES (Uses) (photog, emulsion sensitized merocyanine dye and having specific characteristic curve)

RN 299186-19-9 CA

[2,5'-Bithiazolidine]-3,3'-diacetic acid, 4,4'-dioxo-2'-thioxo-5-[2-(3,5,6-trimethyl-2(3H)benzoxazolvlidene)propvlidenel- (CA INDEX NAME)

L6 ANSWER 19 OF 59 CA COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER:

131:346538 CA TITLE:

Thiazolidine and oxazolidine derivatives for the treatment of acute myocardial infarction and

inhibition of cardiomyocyte apoptosis

INVENTOR(S): Wang, Ping H.

PATENT ASSIGNEE(S): Regents of the University of California, USA SOURCE:

PCT Int. Appl., 49 pp. CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

	PAT	ENT :	NO.			KIN	D	DATE			APPL	ICAT	ION :	NO.		D.	ATE	
							-									-		
	WO	9959	586			A1		1999	1125		WO 1:	999-1	US11	101		1	9990	519
		W:	AE,	AL.	AM.	AT.	AU,	AZ,	BA.	BB,	BG,	BR.	BY,	CA,	CH,	CN.	CU,	CZ.
								GB,										
			JP,	KE,	KG,	KP,	KR,	KZ,	LC,	LK,	LR,	LS,	LT,	LU,	LV,	MD,	MG,	MK,
			MN,	MW,	MX,	NO,	NZ,	PL,	PT,	RO,	RU,	SD,	SE,	SG,	SI,	SK,	SL,	TJ,
			TM,	TR,	TT,	UA,	UG,	US,	UZ,	VN,	YU,	ZA,	zw					
		RW:	GH,	GM,	KE,	LS,	MW,	SD,	SL,	SZ,	UG,	ZW,	AT,	BE,	CH,	CY,	DE,	DK,
			ES,	FI,	FR,	GB,	GR,	IE,	IT,	LU,	MC,	NL,	PT,	SE,	BF,	ВJ,	CF,	CG,
			CI,	CM,	GA,	GN,	GW,	ML,	MR,	NE,	SN,	TD,	TG					
	AU	9940	052			A		1999	1206		AU 1	999-	4005	2		1	9990	519
PRIO	RITY	APP	LN.	INFO	. :						US 1	998-	8603	0P		P 1	9980	519

OTHER SOURCE(S): MARPAT 131:346538

It has been demonstrated that antidiabetic thiazolidine and oxazolidine derivs. (glitazones) exhibit novel effects on apoptosis of cardiomyocytes. These substances are capable of greatly decreasing apoptosis by a pathway that is not Caspase 3 dependent. Addition of IGF1 to the treatment further prevents apoptosis. Glitazones alone or glitazones plus IGF1 should be administered at the beginning of a myocardial infarction and continued through the recuperation period to reduce morbidity and prevent unfavorable remodeling of the myocardium. Thus, troglitazone (5 μ M), when added to a culture medium, reduced doxorubicin-induced apoptosis of cardiomyocyte by approx. 60%.

US 1998-87204P

WO 1999-US11101

P 19980528

W 19990519

109209-48-5

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(thiazolidine and oxazolidine derivs. for treatment of acute myocardial

infarction and inhibition of cardiomyocyte apoptosis)

RN 109209-48-5 CA CN 2,4-Thiazolidin

2,4-Thiazolidinedione, 5-[[2,3-dihydro-1,1-dioxido-2-(phenylmethyl)benzo[b]thien-5-yl]methyl]- (CA INDEX NAME)

OS.CITING REF COUNT: 5 THERE ARE 5 CAPLUS RECORDS THAT CITE THIS RECORD (5 CITINGS)

REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 20 OF 59 CA COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER:

ER: 126:74831 CA

ORIGINAL REFERENCE NO.: 126:14485a

TITLE: Preparation of thiazolidinedione or oxazolidinedione derivatives as hypoglycemic agents

INVENTOR(S): Nomura, Yutaka; Masui, Seiichiro; Sakuma, Shogo

PATENT ASSIGNEE(S): Nippon Chemiphar Co., Ltd., Japan

SOURCE: PCT Int. Appl., 32 pp. CODEN: PIXXD2

DOCUMENT TYPE: Patent
LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PA'	TENT :	NO.			KIN	D	DATE			API	PLICA	TION	NO.		D	ATE	
															_		
WO	9635	688			A1		1996	1114		WO	1996	-JP82	9		1	9960	328
	W:	AL,	AM,	AU,	BB,	BG,	BR,	CA,	CN,	C2	Z, EE	, FI,	GE,	HU,	IS,	KG,	KR,
		LK,	LR,	LT,	LV,	MD,	MG,	MK,	MN,	M	, NO	, NZ,	PL,	RO,	SG,	SI,	SK,
		TR,	TT,	UA,	UG,	US,	UZ,	VN,	AZ,	B)	, KZ	, RU,	TJ,	TM			
	RW:	KE,	LS,	MW,	SD,	SZ,	UG,	AT,	BE,	CE	i, DE	, DK,	ES,	FI,	FR,	GB,	GR,
		IE,	IT,	LU,	MC,	NL,	PT,	SE,	BF,	B	J, CF	, CG,	CI,	CM,	GA,	GN,	ML,
		MR,	NE,	SN,	TD,	TG											
AU	9651	217			A		1996	1129		ΑU	1996	-5121	.7		1	9960	328
JP	0917	6163			A		1997	0708		JΡ	1996	-9908	4		1	9960	328
PRIORIT	Y APP	LN.	INFO	. :						JΡ	1995	-1347	98	- 1	A 1	9950	508
										JP	1995	-3035	62		A 1	9951	027
										WO	1996	-JP82	9	1	W 1	9960	328
OTHER S	DURCE	(S):			MAR	PAT	126:	74831	l								

AB The title compds. I [R1 represents Ph, naphthyl, cycloalkyl or a heterocycle optionally having substituents selected from among alkyl, alkoxy, halogeno, hydroxy, halogenoalkyl, halogenoalkoxy, nitro, amino, Ph, thienyl, furyl, thiazolyl and pyridyl, V represents CH or CH2; W represents O or S; Y represents CH or N; Z represents O, S, SO, SO2 or NR2 (wherein R2 represents H, alkyl, aralkyl or acyl); X represents O, S, CO, CH2, NR3, NR4CO or CONRS (wherein R3, R4 and R5 independently represent each H or alkyl); m and n independently represent each an integer of 0 to 4; and the dotted line represents a single or double bond) are prepared The title compound II at 100 mg/kg/day for 3 days gave 45% reduction of plasma glucose in diabetic mice.

T 185435-93-2P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of thiszolidinedione or oxazolidinedione derivs. as

(preparation of thiazolidinedione or oxazolidinedione derivs. a hypoglycemic agents)

RN 185435-93-2 CA

CN 2,4-Thiazolidinedione, 5-[[1-oxido-6-[[4-

(trifluoromethyl)phenyl]methoxy]benzo[b]thien-2-yl]methyl]- (CA INDEX NAME)

REFERENCE COUNT: 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 21 OF 59 CA COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 124:101746 CA ORIGINAL REFERENCE NO.: 124:18749a,18752a

TITLE: Silver halide photographic material spectrally sensitized by cyanine dye

INVENTOR(S): Kita, Noryasu; Kagawa, Nobuaki
PATENT ASSIGNEE(S): Konishiroku Photo Ind, Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 51 pp.

CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1 PATENT INFORMATION:

MeO N MeO D D

- AB The claimed photog, material has at least one Ag halide emulsion layer spectrally sensitized by a merocyanine dye I (R1 = C1-10 aliphatic group with water-solubilizing substituent; A = group forming a merocyanine dye and linked through conjugated bonds with the oxazole moiety) or cyanine dye II (R2 = C1-10 aliphatic group with water-solubilizing substituent; D = group forming a cyanine dye and linked through conjugated bonds with the oxazole moiety; X = counter ion). The spectral sensitizers increase both photog, speed and wash off property resulting in low residual dye stain. They are suited for color papers and medical x-ray films of rapid processing types.
- IT 172356-55-7P RL: DEV (Device component use); PNU (Preparation, unclassified); PREP (Preparation); USES (Uses)
- (silver halide photog. material spectrally sensitized by cyanine dye) RN 172356-55-7 CA
- CN [2,5'-Bithiazolidine]-3,3'-diacetic acid,
 - 5-[[5,6-dimethoxy-3-(3-sulfopropy1)-2(3H)-benzoxazolylidene]=thylidene]-4,4'-dioxo-2'-thioxo-, compd. with N,N-diethylethanamine (1;1) (9CI) (CA INDEX NAME)

CM 1

CRN 172356-54-6

CMF C24 H25 N3 O12 S4

CM 2

CRN 121-44-8 CMF C6 H15 N

Εt Et-N-Et

L6 ANSWER 22 OF 59 CA COPYRIGHT 2009 ACS on STN ACCESSION NUMBER: 123:58772 CA

ORIGINAL REFERENCE NO.: 123:10531a,10534a

TITLE: Syntheses of 3-ary1-5-[2'-(apyridophthalonyl)]rhodanines and their dyeing

performance on acetate and/or fibers Fadda, A. A.; Aly, M. M.; Etman, H. A.; Fouda, A. AUTHOR(S): CORPORATE SOURCE: Department of Chemistry, Faculty of Science, Mansoura

University, Mansoura, Egypt SOURCE: Indian Journal of Fibre & Textile Research (1995).

20(2), 108-11 CODEN: IJFRET; ISSN: 0971-0426 PUBLISHER: Publications & Information Directorate, CSIR

DOCUMENT TYPE: Journal

LANGUAGE: English

GI

AB 3-Aryl-5-[2'-(\alpha-pyridophthalonyl)]rhodanines I (Ar = m-MeOC6H4, p-HOC6H4, m-MeC6H4, o-MeOC6H4, p-MeC6H4) were prepared by the treatment of 2-(2'-pyridyl N-oxide)indan-1,3-dione with different arylrhodanines at 90° in the presence of Ac20, and their dyeing performance on polyester, acrylic and wool fibers was assessed. The effect of nature and orientation of substituents on the color of these compds. was also studied. All the compds. showed good affinity towards wool fibers and have no affinity towards polyester and polyacrylic fibers. 164853-87-6P

RL: SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(syntheses of 3-arv1-5-[2'-(\alpha-pyridophthalonyl)]rhodanines and their dveing performance on wool)

164853-87-6 CA RN

CN 1H-Indene-1,3(2H)-dione, 2-[6-[3-(3-methoxypheny1)-4-oxo-2-thioxo-5thiazolidinyl]-1-oxido-2-pyridinyl]- (CA INDEX NAME)

L6 ANSWER 23 OF 59 CA COPYRIGHT 2009 ACS on STN 122:251986 CA

ACCESSION NUMBER:

ORIGINAL REFERENCE NO.: 122:45761a,45764a

TITLE:

Silver halide photographic material Sasaki, Kamvuki; Kagawa, Nobuaki INVENTOR(S): PATENT ASSIGNEE(S): Konishiroku Photo Ind. Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 20 pp. CODEN: JKXXAF Patent

DOCUMENT TYPE: LANGUAGE:

Japanese FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 06313941	A	19941108	JP 1993-104460	19930430
PRIORITY APPLN. INFO.:			JP 1993-104460	19930430
OTHER SOURCE(S):	MARPAT	122:251986		

AB The title photog, materials comprise a support coated with ≥1 photosensitive emulsion layer ≥1 of which contains platy Ag halide grains with average aspect ratio ≥2 to which ≥1 sensitizing dye I [Y1-3 = NR, O, S, Se; R1 = C≤10 aliphatic group substituted for water-soluble groups; R, R2, R3 = aliphatic group, aryl, heterocycle, ≥2 of R, R2, and R3 are water-soluble group-substituted groups; V1, V2 = H, alkyl, alkoxy, aryl, V1 and V2 may from a condensed ring together with the azole ring; L1, L2 = (substituted) methine; M = ion required to offset the CN

total charge of the mol.; n= number required to neutralize the charge of the mol.] is added prior to the starting of chemical ripening. The materials show high sensitivity toward red light and good storage stability and prevent roller marks and fading of the latent image. Thus, a photog, film was prepared by using a Ag(Br, I) emulsion (aspect ratio 2.57) to which I [YI = O, Y2 = Y3 = S, Rl = (CH2)2SO3H, R2 = R3 = CH2CO2H, V1 = V2 = CMe, L1 = L2 = CBH was added after phys. ripening.

161920-33-8 RL: DEV (Device component use); MOA (Modifier or additive use); USES (Uses)

(photog. emulsion containing merocyanine dye sensitizer) RN 161920-33-8 CA

3-Oxazolidineacetic acid, 2-[3-(carboxymethyl)-4-oxo-2-thioxo-5-thiazolidinyl]-5-[2-[5,6-dimethyl-3-(4-sulfobutyl)-2(3H)-benzothiazolylidene]ethylidene]-4-oxo-, potassium salt (1:1) (CA INDEX NAME)

K

L6 ANSWER 24 OF 59 CA COPYRIGHT 2009 ACS on STN ACCESSION NUMBER: 122:226679 CA

ORIGINAL REFERENCE NO.: 122:41190h, 41191a

TITLE: Silver halide photographic materials INVENTOR(S): Inoe, Kenichi; Kagawa, Nobuaki

PATENT ASSIGNEE(S): Konishiroku Photo Ind, Japan SOURCE: Jpn. Kokai Tokkyo Koho, 22 pp.

CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 06313942 PRIORITY APPLN. INFO.:	A	19941108	JP 1993-104461 JP 1993-104461	19930430 19930430

AB The title photog. material comprises a support coated with ≥1 photosensitive emulsion layer ≥1 of which is spectrally sensitized with ≥1 sensitizing dye I [Y1-3 = NR, O, S, Se; R1 = CSI0 aliphatic group substituted for water-soluble groups; R, R2, R3 = aliphatic

Ι

group,

aryl, heterocycle, ≥ 2 of R, R2, and R3 are water soluble group-substituted groups; V1, V2 = H,alkyl, alkoxy, aryl, V1 and V2 may form a condensed ring together with the azole ring; L1, L2 = (substituted) methine; M = ion required to offset the total charge of the mol.; n = number required to neutralize the charge of the mol.] and contain ≥ 1 polymer [CH2CR1(Ln(CONN2R3)m)x ≥ 1 [R1 = H, C56 alkyl; R2, R3 = (substituted) CS10 alkyl, aryl, aralkyl, R2 and R3 may form a N-containing heterocycle; ≥ 1 a = unit from copolymerizable ethylenic unsatd. Monomers; L = divalent linking group; n = 0, 1, m = 1, 2; x = 70-100 mols] in ≥ 1 of its constituent layers. The material shows high spectral sensitivity in red light wavelength regions and is independent of exposure temperature. Thus, a photog. film was prepared by using a Ag(I, Br) emulsion.

layer

sensitized with I [Y1 = 0, Y2 = Y3 = S, R1 = (CH2)2SO3H, R2 = R3 = CH2CO2H, V1 = V2 = OMe, L1 = L2 = CH] and a gelatin-based protective layer containing polyacrylamide.

IT 161920-33-8

RL: DEV (Device component use); MOA (Modifier or additive use); USES (Uses)

(sensitizer; photog. film containing polyacrylamide derivative and merocyanine

dye sensitizer)

RN 161920-33-8 CA

CN 3-Oxazolidineacetic acid, 2-[3-(carboxymethyl)-4-oxo-2-thioxo-5-thiazolidinyl]-5-[2-[5,6-dimethyl-3-(4-sulfobutyl)-2(3H)-benzothiazolylidene]ethylidene]-4-oxo-, potassium salt (1:1) (CA INDEX NAME)

• K

L6 ANSWER 25 OF 59 CA COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 121:35593 CA ORIGINAL REFERENCE NO.: 121:6579a,6582a

TITLE: Preparation of thiazolidine-2,4-dione derivatives as

antidiabetics

INVENTOR(S): Myaoka, Shozo; Sato, Hiroko; Takahashi, Keimei;

Suzuki, Myoshi
PATENT ASSIGNEE(S): Terumo Corp, Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 10 pp.

CÔDEN: JKXXAF
DOCUMENT TYPE: Patent

LANGUAGE: Japanese FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 05310719	A	19931122	JP 1992-110461	19920428
PRIORITY APPLN. INFO.:			JP 1992-110461	19920428
OTHER SOURCE(S):	MARPAT	121:35593		

AB The title derivs. I (R1 - R3 = H, OH, lower alkyl or alkoxy, alkoxycarbonyloxy; A = O, methylene) are prepared A mixture of 5.10 g 5-[(3,-d-ihydro-1(2H)-naphthalenon-7-yl)methyllthiazolidine-2,4-dione (prepared from tetralone in 3 steps), 3.60 g 3-methoxy-4-methoxymethoxybenzaldehyde, aqueous NaOH in MeOH was treated at room temperature for 3.5 h to give 3.40 g 5-[(2-(3-methoxy-4-methoxymethoxyphenyl)methylene-3,4-dihydro-1(2H)-naphthalenon-7-yl)methylthiazolidine-2,4-dione, whose solution in THF-MeOH

was treated with HCl at 60° for 2 h to give 2.60 g I (R1 = 0Me, R2 = 0H, R3 = H, A = CH2) (II). II inhibited aldose reductase with IC50 of 4.5 + 10 - 6.

IT 154149-84-5P

RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation and condensation of, with benzaldehydes)

RN 154149-84-5 CA

CN 2,4-Thiazolidinedione, 5-[(3,4-dihydro-4-oxo-2H-1-benzopyran-6-yl)methyl]-(CA INDEX NAME)

L6 ANSWER 26 OF 59 CA COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 115:222671 CA
ORIGINAL REFERENCE NO.: 115:37707a,377

ORIGINAL REFERENCE NO.: 115:37707a,37710a

TITLE: Metabolism of a new thiazolidinedione hypoglycemic agent CP-68,722 in rat: metabolite identification by

gas chromatography mass spectrometry
AUTHOR(S): Fouda, H. G.; Lukaszewicz, J.; Clark, D. A.; Hulin, B.

CORPORATE SOURCE: Pfizer Inc., Groton, CT, 06340, USA SOURCE: Xenoblotica (1991), 21(7), 925-34 CODEN: XENOBH; ISSN: 0049-8254

DOCUMENT TYPE: Journal LANGUAGE: English GI

PhCH2 O NH

AB After i.v. administration to rat of CP-68,722 (I), a new thiazolidinedione antidiabetic drug, four metabolites were excreted in bile, as glucuronide conjugates. Incubation of the drug with a rat liver microsomal preparation yielded the four in vivo metabolite aglycons and several addni. in vitro metabolites. Seven in vivo-generated metabolites were isolated by HFLC. Each metabolite was converted to stable isotope labeled or non-labeled derivs. Capillary GLC mass spectrometric anal. of the derivs. indicated that five metabolites result from hydroxylation and one from oxidation to the chromanone. The sites of metabolism were deduced from the electron ionization spectra. Authentic stds. for five metabolites were synthesized. Agreements of mass spectra and chromatog, retention times confirmed the five proposed structures. Two metabolites, detected only in vivo, await structure confirmation.

II 137103-36-7P RL: SPN (Synthetic preparation); PREP (Preparation) (preparation and as thiazolidinedione CP-68722 metabolite) ${\tt RN} = 137103 - 36 - 7 - {\tt CA}$

CN 2,4-Thiazolidinedione, 5-[[3,4-dihydro-4-oxo-2-(phenylmethyl)-2H-1-benzopyran-6-yl]methyl]- (CA INDEX NAME)

O S CH2 Ph

OS.CITING REF COUNT: 8 THERE ARE 8 CAPLUS RECORDS THAT CITE THIS RECORD (8 CITINGS)

L6 ANSWER 27 OF 59 CA COPYRIGHT 2009 ACS on STN ACCESSION NUMBER: 114:603 CA

ORIGINAL REFERENCE NO.: 114:119a

TITLE: Hypolipemics containing

(thiazolidinylmethyl)benzoxazines
INVENTOR(S): Iijima, Ikuo; Ozeki, Masakatsu; Ol

INVENTOR(S): Iijima, Ikuo; Ozeki, Masakatsu; Okumura, Kunito; Otani, Akio; Inamasu, Masanori

PATENT ASSIGNEE(S): Tanabe Seiyaku Co., Ltd., Japan SOURCE: Jpn. Kokai Tokkyo Koho, 5 pp.

CODEN: JKXXAF
DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 02167226	A	19900627	JP 1989-216741	19890822
JP 04060583	В	19920928		
PRIORITY APPLN. INFO.:			JP 1988-229087 A	1 19880913
OTHER SOURCE(S):	MARPAT	114:603		
CT				

AB Hypolipemics, useful for prophylactic and therapeutic treatment of arteriosclerosis, contain the title compds. I [RI = Ph, (un)substituted thiazolyl; R2 = H, lower alkyl; Q = bond or lower alkylene] or their pharmacol. acceptable salts as active ingredients. Rats fed a high-cholesterol diet containing 100 mg% (sic) I [RIQ = 2-phenylthiazol-4-ylmethyl, R2 = H) (preparation given) for 3 days resulted in decreased serum cholesterol level, increased high-d. lipoprotein

10/582014

cholesterol level, and decreased serum triglyceride level.

118779-17-2P

RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of, as hypolipemic agent)

118779-17-2 CA RN

2,4-Thiazolidinedione, 5-[[3,4-dihydro-4-methyl-3-oxo-2-(phenylmethyl)-2H-1,4-benzoxazin-6-vl]methvl]- (CA INDEX NAME)

L6 ANSWER 28 OF 59 CA COPYRIGHT 2009 ACS on STN 113:231255 CA

ACCESSION NUMBER:

113:39021a,39024a ORIGINAL REFERENCE NO.:

TITLE: Application of phase-transfer catalysis in reactions

with some rhodanine derivatives AUTHOR(S): El-Shafei, Ahmed Kamal; El-Sayed, Ahmed Mahmoud;

Sultan, Adel; Abdel-Ghany, Hossam

CORPORATE SOURCE: Chem. Dep., Fac. Sci., Sohag, Egypt

SOURCE: Gazzetta Chimica Italiana (1990), 120(3), 197-201

CODEN: GCITA9; ISSN: 0016-5603

DOCUMENT TYPE: Journal LANGUAGE: English

OTHER SOURCE(S): CASREACT 113:231255

GΙ

AB A series of substitution, addition and condensation reactions using 2-thioxo-N-(m-tolyl)thiazolidin-4-one (I, R = H), in solid-liquid two-phase systems are reported. The new products are obtained in fair yields and their structures assigned. Thus, I (R = H) was treated with C1CH2CO2Et in benzene containing Bu4NBr to give 81% I (R = CH2CO2Et).

130685-89-1P

RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of)

130685-89-1 CA RN

CN [5,5'-Bithiazolidine]-4,4'-dione, 3,3'-bis(3-methylphenyl)-2,2'-dithioxo-(CA INDEX NAME)

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OS.CITING REF COUNT:

THERE ARE 6 CAPLUS RECORDS THAT CITE THIS RECORD (6 CITINGS)

ANSWER 29 OF 59 CA COPYRIGHT 2009 ACS on STN ACCESSION NUMBER: 113:191217 CA ORIGINAL REFERENCE NO.: TITLE:

113:32369a,32372a Rhodanine derivatives

6

AUTHOR(S): CORPORATE SOURCE: Das, Kasturi; Panda, D.; Dash, B.

SOURCE:

Dep. Chem., Utkal Univ., Bhubaneswar, 751 004, India Journal of the Indian Chemical Society (1990), 67(1),

CODEN: JICSAH; ISSN: 0019-4522 DOCUMENT TYPE: Journal English

LANGUAGE: GI

AB The synthesis of some 3,5-disubstituted aminomethylrhodanines was carried out by Mannich condensation of 3-arylrhodanines I (R = H; 2-, 3-, 4-Me; 4-C1; 2-, 4-MeO; 4-NO2) with Et2NH, piperidine, morpholine, phthalimide, and quinazolone resp. The mass spectral fragmentation patterns of 4 representative members of 3-arylrhodanines have been investigated and the mechanism of fragmentation is discussed. All the compds. have been screened for their fungicidal activity.

130189-44-5P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)

(preparation and fungicidal activity of)

130189-44-5 CA RN

CN 1H-Isoindole-1,3(2H)-dione, 2-[(4-oxo-3-pheny1-2-thioxo-5thiazolidinyl)methyl]- (CA INDEX NAME)

OS.CITING REF COUNT: THERE ARE 4 CAPLUS RECORDS THAT CITE THIS RECORD 4 (5 CITINGS)

ANSWER 30 OF 59 CA COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 113:174070 CA

ORIGINAL REFERENCE NO.: 113:29513a,29516a

TITLE: Synthesis of rhodanine and its derivatives AUTHOR(S): Li, Duxin; Chen, Liang; Wang, Guosheng; Jia, Wei

CORPORATE SOURCE: Shanxi Univ., Jinan, Peop. Rep. China SOURCE: Shanxi Daxue Xuebao, Ziran Kexueban (1989), 12(3),

304-11

CODEN: SDXKDT; ISSN: 0253-2395

DOCUMENT TYPE: Journal

Chinese LANGUAGE:

Methods for preparation of rhodanine and its derivs., useful as photog. sensitizers, were described. The methods used were simple in procedure and high in yield. The structures of the products were characterized by IR and NMR.

130021-49-7P

RL: SPN (Synthetic preparation); PREP (Preparation)

(preparation and characterization of) RN 130021-49-7 CA

CN 3-Thiazolidineacetic acid, 5,5'-(phenylmethylene)bis[4-oxo-2-thioxo- (CA INDEX NAME)

L6 ANSWER 31 OF 59 CA COPYRIGHT 2009 ACS on STN 113:145347 CA

ACCESSION NUMBER:

113:24493a,24496a ORIGINAL REFERENCE NO.:

2-Substituted-6-[(2,4-dioxothiazolidin-5-yl)methyl]-3-TITLE:

oxo-1,4-benzoxazines as hypoglycemics

INVENTOR(S): Iijima, Ikuo; Ozeki, Masakatsu; Okumura, Kunito;

Inamasu, Masanori

PATENT ASSIGNEE(S): Tanabe Seiyaku Co., Ltd., Japan SOURCE: Jpn. Kokai Tokkyo Koho, 5 pp. CODEN: JKXXAF

DOCUMENT TYPE: Patent
LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1 PATENT INFORMATION:

 PATENT NO.
 KIND
 DATE
 APPLICATION NO.
 DATE

 JP 02138218
 A
 19900528
 JP 1989-165582
 19890628

 JP 04060584
 B
 19920928
 JP 1988-217774
 A1 19880830

 FRIORITY APPLIN. INFO::
 MARPAT 113:145347
 JP 1988-217774
 A1 19880830

AB The title compds. I (R = Ph, substituted thiazolyl; R1 = H, lower alkyl; Q = direct bond, lower alkylene) or their pharmacol. acceptable salts are hypoglycemic agents. I and their salts are especially useful for treatment of insulin-independent diabetes. An aqueous NaNO2 solution was added dropwise to

mixture of 6-amino-2-benzyl-3-oxo-1,4-benzoxazine (prepared by cyclocondensation of PhcHzCHBCTCOL with 2-amino-4-nitrophenol, followed by reduction), concentrated HCl, and acetone at 0° and the reaction mixture was stirred at room temperature for 30 min. Subsequently CH2:CHCOZMe was added, then Cu2O was gradually added at 35-40°, and the reaction mixture was further stirred for 30 min to give 73% Me 3-(2-benzyl-3-oxo-1,4-benzoxazin-6-y1)-2-chloropropionate. This was treated with a mixture of thiourea, AcONa, and MeCCHZCHZOH at 100° for 7 h to give 76% 2-benzyl-6-(2-imino-4-oxothiazolidin-5-y1)methyl]-3-oxo-1,4-benzoxazine, which was treated with p-MeCGH4SO3H.H2O in H2O/MeCHZCHZOH under reflux for 4 h to give 84% I (QR = CH2Ph, R1 = H) (II). II lowered blood sugar ≥20% in diabetic mice.

RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of, as hypoglycemic)

RN 118779-17-2 CA

CN 2,4-Thiazolidinedione, 5-[[3,4-dihydro-4-methyl-3-oxo-2-(phenylmethyl)-2H-1,4-benzoxazin-6-yl]methyl]- (CA INDEX NAME)

а

L6 ANSWER 32 OF 59 CA COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 111:153824 CA ORIGINAL REFERENCE NO.: 111:25657a,25660a

TITLE: 5-(4-0xo-1-phthalazinyl)-2,4-dioxothiazolidine

derivatives as aldose reductase inhibitors
INVENTOR(S): Niigata, Kunihiro; Okada, Minoru; Yoneda, Takashi

INVENTOR(S): Niigata, Kunihiro; Okada, Minoru; Yoneda, Takasi PATENT ASSIGNEE(S): Yamanouchi Pharmaceutical Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 13 pp.

Ι

CODEN: JKXXAF

DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 01019077 PRIORITY APPLN. INFO.:	A	19890123	JP 1987-175264 JP 1987-175264	19870713 19870713
OTHER SOURCE(S):	MARPAT	111:153824		

AB Title compds. I [X = H, halo; n = 1,2; R = H, alkyl substituted phenyl-, (halo-substituted)imidazolyl- or thienyl-, naphthyl-, or 2-alkyl-5-halothiazol-4-ylalkyl], useful for treatment of diabetic complications such as diseases caused by aldose reductase (no data), are prepared Treatment of a phthalazine II (Rl = CH2CO2Et) (generated in situ from its HBr salt) in CHCl3 with Br in the presence of (PhCO)202 under a 300W lamp gave II (Rl = CHBFCO2Et), which in EtOH was refluxed with (H2N)2CS to afford II (Rl = 2,4-dioxothiazolidin-5-yl).

II 122812-82-2

RL: RCT (Reactant); RACT (Reactant or reagent)
(amidation of, by imidazolobutanoic acid, in preparation of aldose reductase

10/582014

inhibitor)

RN 122812-82-2 CA

CN 2,4-Thiazolidinedione, 5-[3-[(3-aminopheny1)methy1]-3,4-dihydro-4-oxo-1-phthalaziny1]- (CA INDEX NAME)

OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)

L6 ANSWER 33 OF 59 CA COPYRIGHT 2009 ACS on STN ACCESSION NUMBER: 110:75529 CA

ORIGINAL REFERENCE NO.: 110:12489a,12492a

TITLE: Preparation of

6-[(2,4-dioxo-5-thiazolidinyl)methyl]-1H-1,4benzoxazine-3(4H)-ones as antidiabetics

INVENTOR(S): Iijima, Ikuo; Ozeki, Masakatsu; Okumura, Kunihito;

Inamasu, Masanori

PATENT ASSIGNEE(S): Tanabe Seiyaku Co., Ltd., Japan SOURCE: Eur. Pat. Appl., 16 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PAT	TENT NO.			KIN	_	DATE	AF	PLICATION NO.	DATE
	283036 283036			A1 B1		19880921 19910911	EF	1988-104362	19880318
	R: AT,	BE,	CH,	DE,	ES,	, GB, GR,	IT, I	I, LU, NL, SE	
JP	63230689			A		19880927	JE	1987-65360	19870318
JP	04060597			В		19920928			
FI	8801104			A		19880919	FI	1988-1104	19880309
FI	91870			В		19940513			
FI	91870			C		19940825			
US	4824833			Α		19890425	US	1988-167344	19880314
AU	8813176			A		19880922	ΑU	J 1988-13176	19880316
AU	601029			B2		19900830			
DK	8801475			A		19880919	DF	1988-1475	19880317
CN	88101541			A		19881005	CN	1 1988-101541	19880317
CN	1019911			С		19930217			
HU	50337			A2		19900129	HU	J 1988-1318	19880317
HU	203548			В		19910828			
IL	85768			A		19930221	II	1988-85768	19880317

PhCH2

FR 2612517	A1	19880923	FR	1988-3571		19880318
FR 2612517	B1	19921113				
AT 67199	T	19910915	AT	1988-104362		19880318
ES 2038710	Т3	19930801	ES	1988-104362		19880318
PRIORITY APPLN. INFO.:			JP	1987-65360	A	19870318
			EP	1988-104362	A	19880318
OTHER SOURCE(S): GI	CASRE	ACT 110:75529	; M	ARPAT 110:75529		

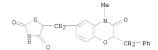
AB The title compds. (I; Q = bond, alkylene; Rl = Ph, substituted thiazolyl; R2 = H, alkyl) were prepared PhCH2CO2H was heated 49 min at 70° with SCC12 in CC14, whereupon NBS and aqueous HBr were added and the mixture heated 1 h and the product added to a THF solution of 2,4-(H2N)(O2N)C6H3OH containing PhNMe2 and the mixture stirred 40 min to give 2-benzyl-6-nitro-IH-1,4-benzoxazin-3(4H)-one. The latter was reduced to the amine which was diazotized and the product stirred with H2C:CHCO2Ve and Cu0 to give benzoxazin/lpropionate II which was heated at 100° for 7 h with (H2N)2CS in MeCCH2CH2O4H containing NaOAc to give, after hydrolysis of the resulting imine, I (Q = CH2, Rl = Ph, R2 = H). A similarly prepared I (Q = Dond, Rl = 2-phenyl-4-thiazolyl, R2 = H), fed to mice at 5 mg% in powdered chow for 5 days, reduced blood glucose levels 60%.

RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of, as antidiabetic agent)

II

RN 118779-17-2 CA

CN 2,4-Thiazolidinedione, 5-[[3,4-dihydro-4-methyl-3-oxo-2-(phenylmethyl)-2H-1,4-benzoxazin-6-yl]methyl]- (CA INDEX NAME)



OS.CITING REF COUNT: 4 THERE ARE 4 CAPLUS RECORDS THAT CITE THIS RECORD (6 CITINGS)

L6 ANSWER 34 OF 59 CA COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 108:150462 CA ORIGINAL REFERENCE NO.: 108:24709a,24712a

TITLE: Preparation of heterocyclylidenethiazolidine derivatives as aldose reductase inhibitors and

pharmaceutical compositions containing them INVENTOR(S): Niigata, Kunihiro; Okada, Minoru; Yoneda, Takashi PATENT ASSIGNEE(S): Yamanouchi Pharmaceutical Co., Ltd., Japan

SOURCE: Eur. Pat. Appl., 197 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent. LANGUAGE: English FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

P	PATENT NO.			KIND DATE		APPLICATION NO.			DATE	
-										
E	EΡ	237138			A1	19870916	EP	1987-300109		19870107
		R: AT,	BE,	CH,	DE, FR	GB, IT, LI	, L	U, NL, SE		
J	JΡ	63165368			A	19880708	JP	1986-310481		19861224
D	ΣK	8700044			A	19870708	DK	1987-44		19870106
A	λU	8767401			A	19870709	AU	1987-67401		19870107
PRIORI	TY	APPLN.	INFO	:			JP	1986-1847	A	19860107
							JP	1986-189850	A	19860812
OTHER	SC	URCE(S):			MARPAT	108:150462				

OTHER SOURCE(S):

GI For diagram(s), see printed CA Issue.

The title compds. I [A is alkylene or alkenylene chain which may have a hetero atom; Z1, Z2, Y = O, S, NH; R1, R2 = H, halo, alkyl, alkoxy, alkylthio, Ph, NO2, OH, etc.; R3 = H, NH2, (substituted) alkyl, Ph, etc.],

useful as aldose reductase inhibitors, were prepared by reaction of ketone derivative II and heterocyclic derivative III in the presence of a base or

Lewis acid. A mixture of rhodanine-3-acetic acid 1.91, 5,7-dimethyl-1-tetralone

1.7, and 1.8-diazabicvclo[5.4.0]undec-7-ene 0.5 g in 50 mL AcOH was heated in a hot bath at 180-200° for 8 h to give 34.6% naphthylidenethiazolidine derivative IV. At 10-6M,

5-(6-methoxy-1,2,3,4-tetrahydro-1-naphthylidene)-4-oxo-2-thioxo-3thiazolidineacetic acid (prepared in the same way as above) in vitro inhibited aldose reductase by 93%.

113073-59-9P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of, as aldose reductase inhibitor)

RN 113073-59-9 CA

CN 4-Thiazolidinone, 5-(1,1-dioxido-2H-1-benzothiopyran-4-v1)-2-thioxo- (CA INDEX NAME)



OS.CITING REF COUNT: 5 THERE ARE 5 CAPLUS RECORDS THAT CITE THIS RECORD (5 CITINGS)

L6 ANSWER 35 OF 59 CA COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 107:172278 CA ORIGINAL REFERENCE NO.: 107:27587a,27590a

TITLE: Michael addition of pyrazolone and thiazolidone to

bis- and cyclopropane derivatives: their

fungitoxicity study

AUTHOR(S): Mitra, P.; Das, N. B.; Mittra, A. S.

CORPORATE SOURCE: Dep. Chem., Ravenshaw Coll., Cuttack, 753003, India SOURCE: Acta Ciencia Indica, Chemistry (1985), 11(4), 267-72

CODEN: ACICDV; ISSN: 0253-7338

DOCUMENT TYPE: Journal LANGUAGE: English

AB Twenty I (R1 = H, OH, NO2, MeO, or Br, n = 1 or 2, R2 = H or Ph) and their cyclopropane derivs. (II) were prepared and screened for their fungicidal activity against rice blast Pyricularia oryzae and the brown leaf-spot pathogen Helminthosporium oryzae. I were prepared by Michael addition of 4-benzylidene-2-pyrazolin-5-ones to 3-phenyl-2-mercapto-4-thiazolidions or by addition of 5-benzylidene-3-phenyl-2-mercapto-4-thiazolidinones to 3-methyl-2-pyrazolin-5-one. II were prepared by treatment of I with NaOH and I/KI solution or by Michael addition of 4-benzylidene-2-pyrazolin-5-ones with 5-bromo-3-phenyl-2-mercapto-4-thiazolidone. I were more active than II. Examples of some of the more active I were (R1 and R2 given): H, Ph; o-OH, Ph; p-OH, Ph; o-NO2, Ph; 2,3-HO(Br), Ph; o-OH, H; and o-NO2, H.

NR2

ΙI

RL: SPN (Synthetic preparation); PREP (Preparation) (preparation and plant fungicidal activity of)

110676-58-9 CA RN CN

4-Thiazolidinone, 5-[(4,5-dihydro-3-methyl-5-oxo-1H-pyrazol-4-yl)(4nitrophenyl)methyl]-3-phenyl-2-thioxo- (CA INDEX NAME)

OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)

Preparation of hypoglycemic 2,4-thiazolidinediones

Eggler, James F.; Holland, Gerald F.; Johnson, Michael

L6 ANSWER 36 OF 59 CA COPYRIGHT 2009 ACS on STN

English

107:39794 CA

107:6659a,6662a

ACCESSION NUMBER: ORIGINAL REFERENCE NO.:

TITLE:

INVENTOR(S):

Ross; Volkmann, Robert A. PATENT ASSIGNEE(S): Pfizer Inc., USA SOURCE: PCT Int. Appl., 99 pp.

CODEN: PIXXD2 DOCUMENT TYPE: Patent

LANGUAGE:

PATENT INFORMATION:

FAMILY ACC. NUM. COUNT:

	TENT NO.			KTM)	DATE	API	PLICATION NO.	DATE
WO	8607056 W: FI,	HU.		A1 SU,	US.	19861204	WO	1985-US962	 19850521
	45247	,	,	A2		19880628	HU	1985-3021	19850521
HU	210339			В		19950328			
EP	207605			A1		19870107	EP	1986-303648	19860514
EP	207605			B1		19900207			
	R: AT,	BE,	CH,	DE,	FR	GB, IT,	LI, L	U, NL, SE	
ΑT	50256			T		19900215	AT	1986-303648	19860514
CA	1279320			С		19910122	CA	1986-509336	19860516
IL	78831			A		19901129	IL	1986-78831	19860519
DK	8602335			A		19861122	DK	1986-2335	19860520
AU	8657580			A		19870108	AU	1986-57580	19860520
AU	560179			B2		19870402			
ZA	8603762			A		19880525	ZA	1986-3762	19860520
DD	261154			A5		19881019	DD	1986-290390	19860520
JP	61271287			A		19861201	JP	1986-117127	19860521
JP	05086953			В		19931214			
CN	86104075			A		19870311	CN	1986-104075	19860521
CN	1007248			В		19900321			
	147479			В1		19890630	PL	1986-259633	19860521

US 4703052	A	19871027	US	1986-10081		19861229
FI 8700219	A	19870120	FI	1987-219		19870120
FI 89268	В	19930531				
FI 89268	C	19930910				
NO 8700241	A	19870320	NO	1987-241		19870120
NO 166448	В	19910415				
NO 166448	C	19910724				
SU 1556540	A3	19900407	SU	1987-4028918		19870120
AU 8775074	A	19871015	AU	1987-75074		19870702
AU 583991	B2	19890511				
IL 83214	A	19910718	IL	1987-83214		19870716
ES 557634	A5	19880812	ES	1987-557634		19870727
PRIORITY APPLN. INFO.:			WO	1985-US962	W	19850521
			EP	1986-303648	A	19860514
			IL	1986-78831	A	19860519

OTHER SOURCE(S): CASREACT 107:39794; MARPAT 107:39794

IT 109209-48-5P
RL: SPN (Synthetic preparation); PREP (Preparation)

(preparation of, as hypoglycemic) 109209-48-5 CA

RN 109209-48-5 CA CN 2,4-Thiazolidinedione, 5-[[2,3-dihydro-1,1-dioxido-2-(phenylmethyl)benzo[b]thien-5-yl]methyl]- (CA INDEX NAME)

NaOAc to give (benzofuranylmethylene)thiazolidinedione II.

OS.CITING REF COUNT: 9 THERE ARE 9 CAPLUS RECORDS THAT CITE THIS RECORD

(12 CITINGS) 3

REFERENCE COUNT: THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 37 OF 59 CA COPYRIGHT 2009 ACS on STN ACCESSION NUMBER: 102:220792 CA

ORIGINAL REFERENCE NO.: 102:34639a,34642a

TITLE: 4-Thiazolidinones as potential antibacterial and

antitubercular agents

AUTHOR(S): Desai, N. C.: Shukla, H. K.: Astik, R. R.: Thaker, K.

CORPORATE SOURCE:

Dep. Chem., Bhavnagar Univ., Bhavnagar, 364 002, India SOURCE: Journal of the Indian Chemical Society (1984), 61(7),

607-8

CODEN: JICSAH; ISSN: 0019-4522

DOCUMENT TYPE: Journal English LANGUAGE:

OTHER SOURCE(S): CASREACT 102:220792

- AB Thiazolidinones I (R = Me, OMe; R1 = Ph, substituted Ph) were prepared by treating HSCH2CO2H with azomethines II. II were prepared by condensing R1CHO with 5-amino-thiazolidine-2,4-diones. I showed antibacterial activity against Staphylococcus aureus and Escherichia coli, and were tested against H37Rv strain of Mycobacterium tuberculosis.
- ΙT 96569-94-7P RL: SPN (Synthetic preparation); PREP (Preparation) (preparation and antibacterial and tuberculostatic activity of)
- 96569-94-7 CA RN
- [3,5'-Bithiazolidine]-2',4,4'-trione, CN
- 2-(2-hydroxyphenyl)-3'-(4-methylphenyl)- (CA INDEX NAME)

OS.CITING REF COUNT: 4 THERE ARE 4 CAPLUS RECORDS THAT CITE THIS RECORD (4 CITINGS)

L6 ANSWER 38 OF 59 CA COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 98:160625 CA ORIGINAL REFERENCE NO.: 98:24379a,24382a

TITLE: Thiazolidinones

AUTHOR(S): Rao, T. N.; Astik, R. R.; Thaker, K. A. CORPORATE SOURCE: Dep. Chem., Bhavnagar Univ., Bhavnagar, India

SOURCE: Journal of the Institution of Chemists (India) (1982).

54(5), 211-12

CODEN: JOICA7; ISSN: 0020-3254

DOCUMENT TYPE: Journal LANGUAGE: English

OTHER SOURCE(S): CASREACT 98:160625

GI

AB The reaction of (methyleneamino)thiazolidinediones I (R = Ph, chloro-, methoxy-, or hydroxyphenyl, bromohydroxyphenyl, styryl, alkyl) with HSCH2CO2H gave thiazolidinones II; the min. inhibiting concentration of II (R = 2-ClC6H4) against Myobacterium tuberculosis was 50 µg/mL. I (R = Ph) was heated with HSCH2CO2H in C6H6 at reflux temperature to give II (R = Ph).

IT 85350-07-8P
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)

(preparation and bactericidal activity of)

RN 85350-07-8 CA

CN [3,5'-Bithiazolidine]-2',4,4'-trione, 2-(2-chlorophenyl)-3'-phenyl- (CA INDEX NAME)

L6 ANSWER 39 OF 59 CA COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 98:53752 CA ORIGINAL REFERENCE NO.: 98:8269a,8272a

TITLE: Thiazolidinones. Part X

AUTHOR(S): Rao, T. N.; Astik, R. R.; Thaker, K. A.
CORPORATE SOURCE: Chem. Dep., Bhavnagar Univ., Bhavnagar, 3

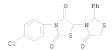
CORPORATE SOURCE: Chem. Dep., Bhavnagar Univ., Bhavnagar, 364 002, India SOURCE: Journal of the Institution of Chemists (India) (1982), 54(4), 183

CODEN: JOICA7; ISSN: 0020-3254

DOCUMENT TYPE: Journal LANGUAGE: English

OTHER SOURCE(S): CASREACT 98:53752

- AB Twelve thiazolidinones I [R = (un)substituted Ph, furyl, HC:CHPh, Bu] were prepared by cyclization of 5-amino-3-(4-chlorophenyl)-2,4-thiazolidinedione with RCHO and thioglycolic acid.
 - 1 84304-62-1P RL: SPN (Synthetic preparation); PREP (Preparation)
- (preparation of) RN 84304-62-1 CA
- CN [3,5'-Bithiazolidine]-2',4,4'-trione, 3'-(4-chlorophenyl)-2-phenyl- (CA INDEX NAME)



L6 ANSWER 40 OF 59 CA COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 96:199734 CA

ORIGINAL REFERENCE NO.: 96:32943a,32946a

TITLE: Methylquinoxaline 1,4-dioxides and feed compositions containing them INVENTOR(S): Benko, Pal; Bozsing, Daniel; Gundel, Janos; Magyar,

Karoly E. Gv. T. Gvogvszervegveszeti Gvar , Hung. PATENT ASSIGNEE(S):

KIND DATE

SOURCE: Fr. Demande, 35 pp.

CODEN: FRXXBL DOCUMENT TYPE: Patent LANGUAGE: French FAMILY ACC. NUM. COUNT: 1 PATENT INFORMATION:

PATENT NO.

GB 2078216

DD 159333 DD 202384

PL 130659 PL 130660

GB 2078216 BR 8103477 US 4373100

---- ------A1 19811204 FR 1981-10868 FR 2483416 19810602 FR 2483416 B1 19851227 A2 19830928 HU 26403 HU 1980-1386 19800603 B 19840730 A1 19840915 IN 1981-CA564 A1 19811202 BE 1981-10241 A 19811204 DK 1981-2414 HU 184293 IN 154091 19810527 BE 889048 19810602 DK 8102414 19810602 19871116 DK 151258 В DK 151258 С 19880502 DK 101201 FI 8101704 A B 19811204 FI 1981-1704 19810602 19870630 FI 73419 FI 73419 C 19871009 NO 8101859 A 19811204 NO 1981-1859 NO 158502 В 19880613 NO 158502 С 19880921 19811204 SE 1981-3472 A B SE 8103472 19810602 SE 454511 19880509 SE 454511 C 1980818
A 19811210 AU 1981-71257
B2 19841004
A 19820104 NL 1981-2660
A 19820106 GB 1981-16802
B 19840620
A 19820224 BR 1981-3477
A 19830208 US 1981-269720
A5 19830914 DD 1981-230505
A5 19830914 DD 1981-241587
B1 19840831 PL 1981-238598 С 19880818 AU 8171257 19810602 AU 539507 NL 8102660 19810602

APPLICATION NO.

DATE

19810602

19810602

19810602

19810602

PL 130661	B1	19840831	PL	1981-238599		19810602
CA 1177486	A1	19841106	CA	1981-378885		19810602
RO 85819	A1	19841125	RO	1981-108876		19810602
RO 85820	A1	19841125	RO	1981-108877		19810602
RO 85821	A1	19841125	RO	1981-108878		19810602
PL 132408	B1	19850228	PL	1981-242731		19810602
CH 648303	A5	19850315	CH	1981-3587		19810602
PL 133906	B1	19850731	PL	1981-231451		19810602
IL 63018	A	19860131	IL	1981-63018		19810602
AT 8102464	A	19880515	AT	1981-2464		19810602
AT 387218	В	19881227				
CS 258108	B2	19880715	CS	1981-4080		19810602
JP 57024370	A	19820208	JP	1981-85555		19810603
DE 3121978	A1	19820225	DE	1981-3121978		19810603
DE 3121978	C2	19870619				
SU 1192622	A3	19851115	SU	1981-3294401		19810603
SU 1396957	A3	19880515	SU	1982-3461110		19820709
SU 1169537	A3	19850723		1982-3490999		19820916
SU 1176838	A3	19850830		1982-3491021		19820916
SU 1205765	A3	19860115		1982-3491000		19821016
SU 1186616	A1	19851023		1982-3506791		19821028
SU 1189346	A3	19851030	SU	1983-3608870		19830624
CS 258127	B2	19880715		1985-5166		19850710
CS 258128	B2	19880715		1985-5167		19850710
CS 258129	B2	19880715		1985-5169		19850710
CS 258130	B2	19880715		1985-5170		19850710
AT 8602884	A	19890215	AT	1986-2884		19861030
AT 388848	В	19890911				
PRIORITY APPLN. INFO.:				1980-1386	A	19800603
				1981-2464	A	19810602
				1981-4080	A3	19810602
OTHER SOURCE(S):	CASRE	ACT 96:19973	4; M	ARPAT 96:199734		

O CHR¹R²

GI

- AB Quinoxaline dioxides I (R = H, alkyl; R1 = OH, R2 = substituted C, N; R1R2 = substituted methylene, imino) were prepared Thus, treating 2-formylquinoxaline 1,4-dioxide with EtNO2 gave (RS)-I (R = H, R1 = OH, R2 = CHMeNO2) which at 50 mg/kq in feed caused a 137.8% weight qain in pigs.
- IT 81707-57-5 RL: RCT (Reactant); RACT (Reactant or reagent)
- (oxidation of) RN 81707-57-5 CA
- CN 4-Thiazolidinone, 5-[(1,4-dioxido-2-quinoxalinyl)hydroxymethyl]-2-thioxo-(CA INDEX NAME)

REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 41 OF 59 CA COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 95:220000 CA
ORIGINAL REFERENCE NO.: 95:36709a,36712a

TITLE: Synthesis and fungitoxicity of some bicyclic compounds AUTHOR(S): Mittra, P.; Mittra, A. S.

CORPORATE SOURCE: Mayurbhanj Chem. Lab., Ravenshaw Coll., Cuttack, 753

SOURCE: Journal of the Indian Chemical Society (1981), 58(9), 923-5

CODEN: JICSAH; ISSN: 0019-4522

DOCUMENT TYPE: Journal LANGUAGE: English

LANGUAGE: English
OTHER SOURCE(S): CASREACT 95:220000

GI

- AB Thiazolidinylpyrazolinones I (R = Ph, chloro-, alkoxy-, or methylphenyl) were prepared by different methods and they were treated with iodine in KI to give dehydrogenation products II; I and II exhibited fungicidal activity. A mixture of 5-bromo-3-phenylrhodanine, 1-phenyl-3-methyl-2-pyrazolin-5-one, and NaOAc in EtOH was refluxed to give I (R = Ph).
- IT 79887-57-3P RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation) (preparation and fungicidal activity of)
- RN 79887-57-3 CA
- CN 4-Thiazolidinone, 5-(4,5-dihydro-3-methyl-5-oxo-1-phenyl-1H-pyrazol-4-yl)-3-phenyl-2-thioxo- (CA INDEX NAME)

OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)

L6 ANSWER 42 OF 59 CA COPYRIGHT 2009 ACS on STN ACCESSION NUMBER: 81:152071 CA

ORIGINAL REFERENCE NO.: 81:23705a,23708a

TITLE: Fungicides. XXIV. Reaction of 5-methoxycarbonylmethylidene-2-thioxy(or

oxo)-4-thiazolidones with o-aminobenzenethiol and

other thiols

AUTHOR(S): Nagase, Hiroshi

CORPORATE SOURCE: Agric. Chem. Div., Takeda Chem. Ind., Ltd., Osaka,
Japan

Chemical & Pharmaceutical Bulletin (1974), 22(1), 42-9

CODEN: CPBTAL; ISSN: 0009-2363 DOCUMENT TYPE: Journal

LANGUAGE: English

GI For diagram(s), see printed CA Issue.

AB A novel addition reaction of o-aminobenzenethiol to

5-methoxycarbonylmethylene-2-thioxo-(or oxo)-4-thiazolidones (I) gave 3-methyl (or benzyl)-5-(3-oxo-2,3-dihydro-4H-1,4-benzothiazin-2-yl)-2-thioxo(or oxo)-4-thiazolidones (II). I also reacted with thiols to afford 1:1 adducts (III and IV) in the presence of a catalytic amount of NBt3. Thermal cyclization of the adducts III to II was observed. The adducts IV dissociated into I and thiols when heated above their m.p. or dissolved in acetone or ethanol. Oxidation of II and IV gave the dehydro-compds. V and

VI, resp. IT 54255-31-1P

SOURCE:

R1: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation and oxidation of)

RN 54255-31-1 CA

CN 2H-1,4-Benzothiazin-3(4H)-one, 2-[4-oxo-3-(phenylmethyl)-2-thioxo-5thiazolidinyl)- (CA INDEX NAME)

OS.CITING REF COUNT: 4 THERE ARE 4 CAPLUS RECORDS THAT CITE THIS RECORD (4 CITINGS)

L6 ANSWER 43 OF 59 CA COPYRIGHT 2009 ACS on STN ACCESSION NUMBER: 81:120612 CA

ORIGINAL REFERENCE NO.: 81:19075a,19078a

TITLE: Thiazolidines

INVENTOR(S): Yamaguchi, Kazutaka; Sato, Shigeo; Kurumi, Masateru;

Sakurai, Yojiro; Okutome, Toshiyuki

KIND DATE

PATENT ASSIGNEE(S): Torii and Co., Ltd.

Jpn. Kokai Tokkyo Koho, 4 pp. SOURCE:

CODEN: JKXXAF DOCUMENT TYPE: Patent LANGUAGE . Japanese

FAMILY ACC. NUM. COUNT: 1 PATENT INFORMATION:

DATENT NO

	I AIENI NO.		TUTTAD	DAIL	AL I	DICATION NO.		DAIL
							-	
	JP	49030359	A	19740318	JP	1972-70622		19720714
	JΡ	50010862	В	19750424				
IOE	RIT	Y APPLN. INFO.:			.TP	1972-70622	A	19720714

ADDITE ATTON NO

For diagram(s), see printed CA Issue. GT

- 2-(Alkylthio)thiazolidines (I; R = alkyl) are condensed with heterocycles containing active CH2 in Ac20 in the presence of a catalyst to give 2-substituted 2-alkylthio-N-acetylthiazolidines, which are converted into N-acetyl-2-thiazolidinylidene derivs.by heating with a catalyst. Thus, 1 g I (R = Et), 1 g N-methylrhodanine, and 0.6 g NaOAc in 10 ml Ac2O was kept at room temperature for 48 hr to give 1.6 g II (R1 = Me, Z = S), which (1 g) was heated with 0.5 g NaOAc in Ac2O for 1 hr, giving 0.7 g III (R1 = Me, Z = S). Also prepared were II (R1 = H, Z = O and S). Similarly, hippuric acid gave 2-ethylthio-2-(2-phenyl-5-oxo-2-oxazolin-4-yl)-3acetylthiazolidine. Heating the 2-ethylthioderivs. in 10% HCl or with Raney Ni in dioxane gave III (R1 = H, Z = O and S). ΙT 53946-33-1P
 - RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
- (preparation and reaction with sodium acetate and acetic anhydride) 53946-33-1 CA RN
- CM [2,5'-Bithiazolidine]-4,4'-dione, 3-acetyl-2-(ethylthio)-3'-methyl-2'thioxo- (CA INDEX NAME)

L6 ANSWER 44 OF 59 CA COPYRIGHT 2009 ACS on STN ACCESSION NUMBER:

80:146067 CA ORIGINAL REFERENCE NO.: 80:23573a,23576a

TITLE: Fungicides. XXV. Addition reaction of

dithiocarbamates to fumaronitrile,

bis(alkylthio)maleonitrile, 2,3-dicvano-5,6-dihvdro-1,4-dithiin, and

4.5-dicvano-2-oxo-1.4-dithiole

AUTHOR(S): Nagase, Hiroshi

CORPORATE SOURCE: Agric. Chem. Div., Takeda Chem. Ind., Ltd., Osaka,

Japan

SOURCE: Chemical & Pharmaceutical Bulletin (1974), 22(3),

505-13

CODEN: CPBTAL; ISSN: 0009-2363

DOCUMENT TYPE: Journal LANGUAGE: English

For diagram(s), see printed CA Issue.

AB 5-Cyanomethyl-2-thioxo-4-aminothiazolines I were prepared by the addition

reaction of dithio-carbamates of fumaronitrile. In the reactions of bis(methylthio)maleonitrile, bis(benzylthio)-maleonitrile,

2,3-dicyano-5,6-dihydro-1,4-dithiin, and 4,5-dicyano-2-oxo-1,4-dithiole with dithiocarbamates were obtained 5,5'-bi(2-thioxo-4-aminothiazolines) II. The 4-amino groups of I and II were labile and hytdrolyzed when

heated with mineral acids to give 5-cyanomethyl-2-thioxo-4thiazolidones III and 5,5'-bi(2-thioxo-4-thiazolidones) IV, resp. II was also converted to the corresponding A5.5'-bi-(2-thioxo-4-iminothiazolidine) V by autoxidn. in the presence of a catalytic amount of triethylamine. 4-0xo-4'-imino-Δ5,5'-bi(2-thioxo-3-benzylthiazolidine) was prepared by

the addition reaction of N-benzyldithiocarbamate to 3-benzyl-5-cyanomethylidene-2-thioxolidone (VI). V and VI gave A5,5'-bi(2-thioxo-4-thiazolidones) VII on hydrolysis with mineral

acids. 41270-43-3P

RL: SPN (Synthetic preparation); PREP (Preparation)

(preparation of) RN 41270-43-3 CA

CN [5,5'-Bithiazolidine]-4,4'-dione, 3,3'-dimethyl-2,2'-dithioxo- (CA INDEX NAME)

THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD OS.CITING REF COUNT: 2 (2 CITINGS)

L6 ANSWER 45 OF 59 CA COPYRIGHT 2009 ACS on STN ACCESSION NUMBER: 79:78671 CA

ORIGINAL REFERENCE NO.: 79:12765a,12768a

TITLE: Fungicides. XXIII. Addition of dithiocarbamates and

thiolcarbamates to 2-thioxo-, 2-oxo- and

2-imino-5-(methoxycarbonylmethylidene)-4-

thiazolidinones
AUTHOR(S): Nagase, Hiroshi

CORPORATE SOURCE: Agric. Chem. Div., Takeda Chem. Ind., Ltd., Osaka, Japan

SOURCE: Chemical & Pharmaceutical Bulletin (1973), 21(5),

1132-5

CODEN: CPBTAL; ISSN: 0009-2363
DOCUMENT TYPE: Journal

LANGUAGE: Journal English

GI For diagram(s), see printed CA Issue.

AB Six A5,5'-Bi-4-thiazolidinones I (R = PhCH2, Me; R1 = H, Me, PhCH2, X = O, HN, MeN) were prepared by treating the thiazoles II (R1 = H, Me, PhCH2; X = O, HN, MeN) with RNHCS2H, NEt3 or II (R1 = Me, PhCH2, X = S) with RNHCOSH.H2NR (R = Me, PhCH2). Reduction of I gave the

5,5'-bi-4-thiazolidinones III.

42963-64-4P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 42963-64-4 CA

CN [5,5'-Bithiazolidine]-2,4,4'-trione, 3'-(phenylmethyl)-2'-thioxo- (CA TNDEX NAME)

CH2-Ph

OS.CITING REF COUNT: 2 THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD
(2 CITINGS)

L6 ANSWER 46 OF 59 CA COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 78:159510 CA
ORIGINAL REFERENCE NO.: 78:25615a,25618a

TITLE: Fungicides. XXII. Reaction of dimethyl acetylenedicarboxylate with dithiocarbamates,

thiolcarbamates, thiosemicarbazides, and

thioicarbamates, thiosemicarbazides, and

thiosemicarbazones

AUTHOR(S): Nagase, Hiroshi

CORPORATE SOURCE: Agric. Chem. Div., Takeda Chem. Ind., Ltd., Osaka, Japan

SOURCE: Chemical & Pharmaceutical Bulletin (1973), 21(2),

279-86

CODEN: CPBTAL; ISSN: 0009-2363 Journal

DOCUMENT TYPE: Journal LANGUAGE: English GI For diagram(s), see printed CA Issue.

AB Dimethyl acetylenedicarboxylate reacted readily with dithiocarbamates, thioicarbamates, thiosenicarbazides, and thiosenicarbazones to give 4-thiazolidones [I, R = H, alkyl, PhCH2, NH2; X = S (II), O NRI (Rl = Me, Ph, substituted-methyleneamino)]. The exo double bond of 4-thiazolidones (II) was highly reactive to dithiocarbamates to give 2,2'-dithioxo-5,5'-bi-4-thiazolidones, which were autoxidized to 2,2'-dithioxo-A5,5'-bi-4-thiazolidones in the presence of catalytic amount of amines.

IT 41270-43-3P

RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of)

RN 41270-43-3 CA

CN [5,5'-Bithiazolidine]-4,4'-dione, 3,3'-dimethyl-2,2'-dithioxo- (CA INDEX NAME)

OS.CITING REF COUNT: 5 THERE ARE 5 CAPLUS RECORDS THAT CITE THIS RECORD (5 CITINGS)

L6 ANSWER 47 OF 59 CA COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 64:48606 CA

ORIGINAL REFERENCE NO.: 64:9090a-b

TITLE: Effect of 5-alkyl substitution on ultraviolet absorption spectra of rhodanine

AUTHOR(S): Turkevich, M. N.; Minka, A. F.

CORPORATE SOURCE: Med. Inst., Lvov

SOURCE: Farmatsevtichnii Zhurnal (Kiev) (1964), 19(5), 3-5

CODEN: FRZKAP: ISSN: 0367-3057

DOCUMENT TYPE: Journal

LANGUAGE: Ukrainian AB With the exception of α -(5-rhodanyl)acetic acid and

α,β-bis(5-rhodanvl)ethane, the 5-alkvl substitution of

rhodanines decreased the 251-254- and in some cases increased the appr.300-mm band intensities. A 3-substitution (Me, Ph, CH2CO2H) of 5- alkylrhodanines caused a bathochromic shift of short wavelength maximum 5-Substitution of rhodanine with n-Pr, n-Bu, or n-C5H11 groups increased the intensity of the 350-365-mm inflection. Practically no 5- or

3-substitution affected the absorption band of the amide group.

IT 4872-69-9, Rhodanine, 5,5'-ethylenedi-

(spectrum of)

RN 4872-69-9 CA

CN Rhodanine, 5,5'-ethylenedi- (7CI, 8CI) (CA INDEX NAME)

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L6 ANSWER 48 OF 59 CA COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER:
                        64:19254 CA
ORIGINAL REFERENCE NO.: 64:3514e-g
TITLE:
                        Synthesis of 4-thiazolidone from dicarboxylic acids
AUTHOR(S):
                        Minka, A. F.
CORPORATE SOURCE:
                       Med. Inst., Lvov
SOURCE:
                        Farmatsevtichnii Zhurnal (Kiev) (1964), 19(3), 47-50
                        CODEN: FRZKAP: ISSN: 0367-3057
DOCUMENT TYPE:
                        Journal
LANGUAGE:
                        Ukrainian
   \alpha-Bromosuccinic or \alpha, \alpha'-dibromoadipic acids were mixed
     with dithiocarbaminates (CA 60, 5476a), the mixture was neutralized with
     NaHCO3, and left for 4-24 hrs., the solution was acidified and brought to
     boiling. On cooling, derivs. of 5-carboxymethyl-4-thiazolidone (I)
precipitated
     from the solution, which were washed with water and alc. and recrystd. By
     condensation of bromo acids with thiourea the reaction was performed in
    MeOH solution with an addition of equivalent weight of AcONa and the reaction
mixture was
     boiled 3-4 hrs. Prepared were (acid, % vield, and m.p. given):
     2-imino-4-oxo-5-thiazolidineacetic, 80, 235-7°;
     2.4-dioxo-5-thiazolidineacetic, 80.5, 164-7°;
     4-oxo-2-thioxo-5-thiazolidineacetic, 52.9, 151°;
     4-oxo-3-phenyl-5-thiazolidineacetic, 35.8, 125-9°;
     4-oxo-3-methyl-5-thiazolidineacetic, 75.6, 127°; and
     4-oxo-2-thioxo-3,5-thiazolidinediacetic, 44, 147°. Also the
    N-substituted \alpha, \beta-di(5-rhodanvl-5-ethanes were prepared
     (substituent, % yield, and m. p.): H, 54.8, 260-2°; CH2CO2H, 35,
     268°; Me, 26.5, 201°; Ph, 22.7, 240.
     Di(5-thiazolidiny1-2,4-dione-2,4)ethane, m. 255°, was obtained in
     37.5% yield.
    3805-30-9P, 2,4-Thiazolidinedione, 5,5'-ethylenebis-
    RL: PREP (Preparation)
       (preparation of)
    3805-30-9 CA
    2,4-Thiazolidinedione, 5,5'-ethylenebis- (7CI, 8CI) (CA INDEX NAME)
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OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)

L6 ANSWER 49 OF 59 CA COPYRIGHT 2009 ACS on STN 63:38484 CA

ACCESSION NUMBER:

ORIGINAL REFERENCE NO.: 63:6816e-f

TITLE:

AUTHOR(S):

CORPORATE SOURCE: SOURCE:

DOCUMENT TYPE:

LANGUAGE:

Synthesis of thiazolidone derivatives with biological interest. XXII. Ultraviolet absorption spectra of pseudothiohydantoins and 2,4-thiazolidinediones Turkevich, N. M.; Minka, A. F.

Med. Inst., L'vov Zhurnal Obshchei Khimii (1965), 35(5), 884-5 CODEN: ZOKHA4; ISSN: 0044-460X

Russian AB cf. CA 52, 2845d; 62, 16224d. Absorption maxima (uv) were reported for pseudothiohydantoins and thiazolidine-2, 4-diones with 5-substituents: Me, Et, Pr, iso-Pr, Bu, Am, C14H29, as well as 5-carboxy. The pseudothiohydantoins retained the 241-9 mm band of thiourea; the amide

band of the latter compds. were found to be weak among these compds. IT 3805-30-9, 2,4-Thiazolidinedione, 5,5'-ethylenebis-

Journal

(spectrum of)

3805-30-9 CA

CN 2,4-Thiazolidinedione, 5,5'-ethylenebis- (7CI, 8CI) (CA INDEX NAME)

band of both pseudothiohydantoins and thiazolidinedione and the thiono

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L6 ANSWER 50 OF 59 CA COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER:
                       60:16673 CA
ORIGINAL REFERENCE NO.: 60:2922b-d
TITLE:
                        Polypyrazoles
AUTHOR(S):
                        Korshak, V. V.; Krongauz, E. S.; Berlin, A. M.
CORPORATE SOURCE:
                       Inst. Heteroorg. Compds., Moscow
SOURCE:
                        Doklady Akademii Nauk SSSR (1963), 152(5), 1108-10
                        CODEN: DANKAS; ISSN: 0002-3264
DOCUMENT TYPE:
                        Journal
LANGUAGE:
                        Unavailable
GI For diagram(s), see printed CA Issue.
AΒ
    (CH2)4(CHN2)2 and p-C6H4(C.tplbond.CH)2 (I) mixed in Et2O solution and kept
     15 days until the orange color had faded to light yellow gave 100% yellow
     precipitate of II [R = (CH2)4, R' = p-C6H4], m. 440° (reduced viscosity
     0.3). Similar reaction with diacetylene gave in 5 days yellow II [R =
    (CH2) 4, R' absent], m. 350-70°, along with a product with
     lower-mol.-weight and m. 250° (reduced viscosities were 0.2 and 0.06,
    resp.). Passage of N203 into N,N'-diacetylxylylenediamine in Ac20-AcOH
     gave 80-90% N,N'-dinitroso derivative, m. 103-4°, which in Et20 was
     treated with MeONa-MeOH and then with I, and gave in 8 days yellow II (R =
    R' = p-C6H4), m. >500°, reduced viscosity 0.24. Absorption spectra
    of the polymers contained a wide band at 3100-300 cm.-1, due to the NH
    group of the pyrazole ring, involved in strong association
    41270-44-4P, 5,5'-Birhodanine, 3,3'-diethyl-
TT
    RL: PREP (Preparation)
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[5,5'-Bithiazolidine]-4,4'-dione, 3,3'-diethvl-2,2'-dithioxo- (CA INDEX

RN

CN [5,5'-NAME)

(preparation of)

41270-44-4 CA

L6 ANSWER 51 OF 59 CA COPYRIGHT 2009 ACS on STN ACCESSION NUMBER: 60:16672 CA

ORIGINAL REFERENCE NO.:

60:2921h,2922a-b TITLE:

Preparation and reactions of some rhodanines AUTHOR(S): Nederlof, A.

CORPORATE SOURCE: "DALCO", Soestduinen, Neth.

SOURCE: Recueil des Travaux Chimiques des Pays-Bas (1963), 82, 75-89

CODEN: RTCPA3; ISSN: 0165-0513

DOCUMENT TYPE: Journal. LANGUAGE: English

GI For diagram(s), see printed CA Issue.

cf. CA 58, 4534f. 3-Ethylrhodanine and 2,4-dinitrobenzaldehyde condensed in HOAc and NaOAc, in HOAc alone, or in EtOH containing piperidine and the product extracted with EtOAc gave I (R = Et, R' = 2,4-dinitrophenyl), m. 135.5°, and II (R = Et) (IV), m. 252-2.5°, orange. IV

reduced with Zn in boiling HOAc and crystallized from CHCl3 gave 45% III (R = Et), m. 155-7°; it autoxidized in air to IV. III (R = allyl), m. 121.5-3.5°, and III (R = EtO2CCH2), m. 169-70°, were made

similarly. 2,4-(O2N)2C6H3CH:NPh (1.35 g.) 0.86 g. 3-allylrhodanine in 5 ml. HOAc heated 1 hr. on a steam bath and cooled gave I (R = allyl, R' =

2,4-dinitrophenyl), m. 85-5.5° (Me2CO). I (R = Et, R' = 2-hydroxy-5-nitrophenyl), m. 233-4.5°, was made similarly.

41270-44-4P, 5,5'-Birhodanine, 3,3'-diethvl-

RL: PREP (Preparation) (preparation of)

RN 41270-44-4 CA

CN [5,5'-Bithiazolidine]-4,4'-dione, 3,3'-diethyl-2,2'-dithioxo- (CA INDEX NAME)

L6 ANSWER 52 OF 59 CA COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 59:48310 CA ORIGINAL REFERENCE NO.: 59:8719c-e

TITLE: Preparation and reactions of some rhodanines

Nederlof, A. AUTHOR(S):

CORPORATE SOURCE: "DALCO," Soestduinen, Neth.

SOURCE: Recueil des Travaux Chimiques des Pays-Bas (1963), 82,

CODEN: RTCPA3; ISSN: 0165-0513

DOCUMENT TYPE: Journal LANGUAGE: English

OTHER SOURCE(S): CASREACT 59:48310

GI For diagram(s), see printed CA Issue.

cf. CA 58, 4534f. 3-Ethylrhodanine and 2,4-dinitrobenzaldehyde condensed in HOAc and NaOAc, in HOAc alone, or in EtOH containing piperidine and the

product extracted with EtOAc gave I (R = Et, R' = 2,4-dinitrophenyl), m.

135.5° and II (R = Et) (IV), m. 252-2.5°, orange. IV reduced with Zn in boiling HOAc and crystallized from CHCl3 gave 45% III (R = Et), m. 155-7°; it autoxidized in air to IV. III (R = allvl), m.

121.5-3.5°, and III (R = Eto2CCH2), m. 169-70°, were made

similarly. 2,4-(O2N)2C6H3CH:NPh (1.35 g.) and 0.86 g. 3-allylrhodanine in 5 ml. HOAc heated 1 hr. on a steam bath and cooled gave I (R = ally1, R' =

2,4-dinitrophenyl), m. 85-5.5° (Me2CO). I (R = Et, R' = 2-hydroxy-5-nitrophenyl), m. 233-4.5°, was made similarly.

41270-44-4P, 5,5'-Birhodanine, 3,3'-diethyl-

RL: PREP (Preparation) (preparation of)

41270-44-4 CA

RN CN [5,5'-Bithiazolidine]-4,4'-dione, 3,3'-diethyl-2,2'-dithioxo- (CA INDEX NAME)

L6 ANSWER 53 OF 59 CA COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 58:27231 CA ORIGINAL REFERENCE NO.: 58:4534f-h

TITLE: Chemistry of rhodanine and its derivatives.

Preliminary communication

AUTHOR(S): Nederlof, A. SOURCE: Recueil des Travaux Chimiques des Pays-Bas (1962), 81,

578-80

CODEN: RTCPA3; ISSN: 0165-0513

DOCUMENT TYPE: Journal LANGUAGE: English

GI For diagram(s), see printed CA Issue.

AB Impure 5-(2,4-dinitrobenzylidne)-3-ethylrhodanine, m. 133°, was prepared by condensing 3-ethylrhodanine with 2,4-dinitrobenzaldehyde. Refluxing the impure product with EtOAc gave the more pure compound and presumably I (R = Et), m. 252-2.5°. The addition of large quantities of p-MeC6H4SO2C1 accelerated the formation of orange I (R = Et), as well as of I (R = CH2CH:CH2), m. 190.5-1°, and I (R = CH2CO2Et), m. 183-4°. These compds. reduced to readily autoxidized II (R = Et), light yellow, m. 155-7°, II (R = CH2CH:CH2), yellow, m. 121.5-3.5°, and II (R = CH2CO2Et), nearly colorless, m. 169-70°, resp. The "anil method" of rhodanine condensation gave purer compds. with higher yields. 3-Aminorhodanine reacted in boiling EtOH with p-nitrobenzaldehyde to give orange 3-amino-5-(p-nitrobenzylidene)rhodanine, m. 230-1°, not the yellow 3-(p-nitrobenzylidenamino)rhodanine as reported by Ueda and Ohta (CA 52, 401d).

41270-44-4P, 5,5'-Birhodanine, 3,3'-diethyl-RL: PREP (Preparation)

(preparation of) 41270-44-4 CA RN

CN [5.5'-Bithiazolidine]-4.4'-dione, 3.3'-diethyl-2.2'-dithioxo- (CA INDEX NAME)

L6 ANSWER 54 OF 59 CA COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 52:45396 CA

ORIGINAL REFERENCE NO.: 52:8122i,8123a-b

TITLE: Synthesis of derivatives of thiazolidone with biological interest. VI. Reaction of condensation of

monochloroacetic acid with thiosemicarbazide in the presence of aldehydes

AUTHOR(S): Vladzimirskava, E. V.

CORPORATE SOURCE: Med. Inst., Lvov

SOURCE: Zhurnal Obshchei Khimii (1957), 27, 2898-901

CODEN: ZOKHA4; ISSN: 0044-460X

DOCUMENT TYPE: Journal

LANGUAGE: Unavailable

cf. C.A. 52, 7285g. Refluxing 1.8 g.thiosemicarbazide with 0.04-0.05 mole aldehyde in 40 ml. AcOH 10 min., adding 1.9 g. ClCH2CO2H and refluxing 50 min., cooling, and adding NaOAc gave a precipitate of

diarylidene-2,4-thiazolidinedione 2-hydrazones; if the aldehyde was furfural, the refluxing was continued 2 hrs. Thus were prepared 5-benzylidene-2,4-thiazolidinedione 2-benzylidenehydrazone, 75%, m.

283°; the 2,5-di(p-anisylidene) analog, 53%, m. 241°; the 2,5-bis(o-chlorobenzylidene) analog, 55%, decompose 275-6°; the 2,5-bis(m-nitrobenzylidene) analog, 64%, m. 265-6°; 2,5-difurfurylidene analog, 38.2%, decompose 200°; 2,5-bis(p-dimethylaminobenzylidene) analog, 25.3%, m. 230°. Similar reaction with salicylaldehyde gave 2,4-thiazolidinedione 2-salicylidenehydrazone, 32%, m. 254-5°. The products were bacteristatic against the tuberculosis organism. 856943-98-1P, 2-Furaldehyde, 2-azine with 5,5'-furfurylidenebis-2,4-thiazolidinedione

RL: PREP (Preparation) (preparation of)

RN 856943-98-1 CA

CN 2-Furancarboxaldehyde, 2-[5-[(2,4-dioxo-5-thiazolidinyl)-2-furanylmethyl]-4,5-dihydro-4-oxo-2-thiazolyl]hydrazone (CA INDEX NAME)

L6 ANSWER 55 OF 59 CA COPYRIGHT 2009 ACS on STN ACCESSION NUMBER: 50:56243 CA ORIGINAL REFERENCE NO.: 50:10580i,10581a-i,10582a-i TITLE: Trinuclear merocyanine dyes INVENTOR(S): Knott, Edward B. PATENT ASSIGNEE(S): Eastman Kodak Co. DOCUMENT TYPE: Patent LANGUAGE: Unavailable FAMILY ACC. NUM. COUNT: 1 PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. _____ 19551227 US 1953-343809

For diagram(s), see printed CA Issue. GI

AB Dyes were prepared of the general formula I, in which R and R''' represent alkyl groups, R' is H or alkyl, R'' is H, alkyl, aryl, or OR, J and J' are the atoms necessary to complete a thiazolidinone ring, Q and Z are the atoms necessary to complete heterocyclic rings, and n and m are integers. 3-Carbethoxymethyl-5-(1-ethoxyethylidene)rhodanine was synthesized by refluxing 4.38 g. 3-carbethoxymethylrhodanine, 6.0 ml. MeC(OEt)3, and 25.0 ml. Ac20 for 1 hr. The product was obtained in 85% yield, m. 105° (from ligroine). The following dyes (m.p., yield, color, sensitivity maximum to gelatino Ag chlorobromide emulsion and to gelatino Ag bromiodide emulsion) were prepared: 2-[2-(3-carbethoxymethyl-4-oxo-2-thiono-5-thiazolidinylidene)-2-ethoxyethylidene)-4-[2-(3-ethyl-2benzothiazolinylidene)ethylidene]-3-methyl-5-thiazolidinone, m. 241°, -, dark-green, 645 and 700 mµ, 735 mµ; 2-[2-(3-carbethoxy-4-oxo-2-thiono-5-thiazolidinylidene)-2ethoxyethylidene]-4-[2-(3-ethyl-2-benzoxazolinylidene)ethylidene]-3-methyl-

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5-thiazolidinone, m. 231°, -, green, 645 and 700 mµ, 700 mµ;
2-[2-(3-carbethoxymethyl-4-oxo-2-thiono-5-thiazolidinylidene)-2-
ethoxyethylidenel-5-[2-(3-ethyl-2-benzothiazolinylidene)et
hylidene]-3-ethyl-4-thiazolidinone, m. 197°, olive-green, 590 and
700 mμ, 580 and 700 mμ; 2-[2-(3-carbethoxymethyl-4-oxo-2-thiono-5-
thiazolidinylidene)-2-ethoxyethylidene]-5-[2-(3-ethyl-2-
benzoxazolinvlidene)ethvlidene]-3-ethvl-4-thiazolidinone, m. 223°,
-, olive-green, 630 and 690 mu, 580 and 710 mu;
2-[2-(3-carbethoxymethyl-4-oxo-2-thiono-5-thiazolidinylidene)-2-
ethoxyethylidene]-5-[2-(4,5-diphenyl-3-ethyl-4-thiazolin-2-
ylidene)ethylidene]-3-ethyl-4-thiazolidinone, m. 232°, -, green,
690 and 740 mμ, 800 mμ; 2-[2-(3-carbethoxymethyl-4-oxo-2-thiono-5-
thiazolidinylidene)-2- ethoxyethylidene]-4-[2-(4,5-diphenyl-3-ethyl-4-
thiazolin-2-ylidene)ethylidene]-3-methyl-5-thiazolidinone, m. 249°
(softens 190°), -, green, 750 mμ, -;
2-[2-(3-carbethoxymethyl-4-oxo-2-thiono-5-thiazolidinylidene)-2-
ethoxyethylidene]-5-[2-(3-ethyl-2-benzothiazolinylidene)-ethylidene]3-
phenyl-4-thiazolidinone, m. 236°, -, olive-green, 620 and 690
mμ, 690 mμ; 2-[2-(3-carbethoxymethyl-4-oxo-2-thiono-5-
thiazolidinvlidene)-2-ethoxyethylidene)-5-(3-ethyl-4,5-diphenyl-4-
thiazolin-2-vlidene)-3-ethvl-4-thiazolidinone, m. 250°, -, mauve,
625 mu, 620 mu; 2-12-(3-carbethoxymethyl-4-oxo-2-thiono-5-
thiazolidinylidene)-2-ethoxyethylidene]-3-ethyl-5-[2-(1,3,3-trimethyl-2-
indolinylidene)ethylidene]-4-thiazolidinone, m. 212°, 33%, green,
630 and 680 mm, 600 and 690 mm;
3-carbethoxymethy1-2-[2-(3-carbethoxymethy1-4-oxo-2-thiono-5-
thiazolidinylidene)-2-ethoxyethylidene]-5-[2-(3-ethyl-2-
benzoxazolinylidene)-ethylidene]-4-thiazolidinone, m. 189°, 31%,
violet-brown, 610 and 690 mm, 620 and 690 mm;
3-carbethoxymethyl-2-[2-(3-carbethoxymethyl-4-oxo-2-thiono-5-
thiazolidinylidene)-2-ethoxyethylidene]-5-[2-(3-ethyl-2-
benzothiazolinylidene)ethylidene]-4-thiazolidinone, m. 221°, 61%,
green, 680 mm, 690 mm; 3-carbethoxymethy1-2-[2-(3-carbethoxymethy1-
4-oxo-2-thiono-5-thiazolidinylidene)-2-ethoxyethylidene]-5-[2-(1-ethyl-
2(H)-quinolylidene)ethylidene]-4-thiazolidinone, m. 216°, 40%,
green, 635 and 730 mm, 685 and 730 mm;
3-carbethoxymethyl-2-[2-(3-carbethoxymethyl-4-oxo-2-thiono-5-
thiazolidinylidene)-2-ethoxyethylidene]-5-[2-(3-methyl-2(3)-
thiazolidinvlidene)ethylidenel-4-thiazolidinone, m. 211°, 33%,
green, 630 and 690 mu, 640 mu;
3-carbethoxymethyl-2-[2-(3-carbethoxymethyl-4-oxo-2-thiono-5-
thiazolidinylidene)-2-ethoxyethylidene]-5-[2-(3-methyl-2-
thiazolidinylidene)propylidene]-4-thiazolidinone, m. 194-5°, 30%
green, 650 mu, 670 mu; 3-carbethoxymethyl-2-[2-(3-carbethoxymethyl-
4-oxo-2-thiono-5-thiazolidinylidene)-2-ethoxyethylidene]-5-[2-(1-ethyl-
2(1H)-B-naphthothiazolvlidene)ethvlidene]-4-thiazolidinone, m.
230°, 40%, green, 690 mµ, 700 mµ;
3-carbethoxymethyl-2-[2-(3-carbethoxymethyl-4-oxo-2-thiono-5-
thiazolidinylidene)-2-ethoxyethylidene]-5-[2-(1-ethyl-2(1H)-β-
naphthothiazolylidene)-1-methylethylidene]-4-thiazolidinone, m.
226°, 23%, green, 710 mµ, 730 mµ;
3-carbethoxymethyl-2-[2-(3-carbethoxymethyl-4-oxo-2-thiono-5-
thiazolidinvlidene)-2-ethoxyethylidene]-5-[2-(1-ethyl-4(1H)-
quinolylidene)ethylidene]-4-thiazolidinone, 210°, 30%, green-gold,
770 mm, 780 mm; 3-carbethoxymethyl-2-[2-(3-carbethoxymethyl-4-oxo-2-
thiono-5-thiazolidinylidene)-2-ethoxyethylidene]-5-[2-(3-ethyl-2-
benzoselenazolinylidene)ethylidene]-4-thiazolidinone, m. 221°, 37%,
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green, 670 mu, 680 mu; 3-carbethoxymethy1-2-[2-(3-carbethoxymethy1-
4-oxo-2-thiono-5-thiazolidinvlidene)-2-ethoxyethylidene]-5-[2-(1-ethyl-
2(1H)-pyridylidene)ethylidenel-4-thiazolidinone, m. 179°, 62%,
green, 710 mm, 690 and 740 mm;
3-carbethoxymethyl-2-[2-(3-carbethoxymethyl-4-oxo-2-thiono-5-
thiazolidinylidene)-2-ethoxyethylidene|-5-[2-(1-ethyl-4(1H)-
pyridylidene)ethylidene|-4-thiazolidinone, m. 213°, 33%, green, 740
mu, 740 mu; 5-[2-(1,3-diethyl-2-benzimidazolinylidene)ethylidene]-3-
carbethoxymethyl-2-[2-(3-carbethoxymethyl-4-oxo-2-thiono-5-
thiazolidinylidene)-2-ethoxyethylidene]-4-thiazolidinone, m. 212°,
28%, green, 690 mm, 700 mm;
5-[2-(4,-5-diphenyl-3-ethyl-4-oxazolin-2-ylidene)ethylidene]-3-
carbethoxymethyl-2-[2-(3-carbethoxymethyl-4-oxo-2-thiono-5-
thiazolidinylidene)-2-ethoxyethylidene]-4-thiazolidinone, m. 151°,
38%, green-bronze, 570 and 680 mm, 690 mm;
5-[2-(4,5-diphenyl-3-ethyl-4-thiazolin-2-ylidene)ethylidene]-3-
carbethoxymethyl-2-[2-(3-carbethoxymethyl-4-oxo-2-thiono-5-
thiazolidinylidene)-2-ethoxyethylidene]-4-thiazolidinone, m. 192°,
37%, green, 680 mm, 685 and 735 mm;
3-allvl-2-[2-(3-allvl-4-oxo-2-thiono-5-thiazolidinvlidene)-2-
ethoxyethylidene]-5-[2-(3-ethyl-2-benzothiazolinylidene)-ethylidene]-4-
thiazolidinone, m. 227°, 39%, green, 690 mµ, 690 mµ;
3-ally1-2-[2-(3-ally1-4-oxo-2-thiono-5-thiazolidinylidene)-2-
ethoxyethylidene]-5-[2-(1-ethyl- 2(1H)-β-naphthothiazolylidene)-1-
ethylethylidene J-4-thiazolidinone, m. 209°, 39%, green, 735 mµ,
-; 3-allv1-2-[2-(3-allv1-4-oxo-2-thiono-5-thiazolidinvlidene)-2-
ethoxyethylidene]-5-[2-(3-ethyl-2-benzothiazolinylidene)-1-
ethylethylidene]-4-thiazolidinone, m. 209°, 45%, green, 690 mm,
690 mu; 3-ally1-2-[2-(3-ally1-4-oxo-2-thiono-5-thiazolidinylidene)-2-
ethoxyethylidene]-5-[1-ethoxy-2-(3-ethyl-2-benzothiazolinylidene)-
ethylidenel-4-thiazolidinone, m. 200°, 12%, green, 690 mµ, 690
mu: 2-[2-(3-carbethoxymethyl-4-oxo-2-thiono-5-thiazolidinylidene)-2-
methoxyethylidene]-3-ethyl-5-[2-(3-ethyl-2-benzoxazolinylidene)ethylidene]-
4-thiazolidinone, m. 244°, 51% green, 690 mµ, 690 mµ;
2-[2-(3-carbethoxymethyl-4-oxo-2-thiono-5-thiazolidinylidene)-2-
methoxyethylidene]-4-[2-(3-ethyl-2-benzothiazolidinylidene)ethylidene]-3-
methyl-5-thiazolidinone, m. 215°, 31%, green, 730 mμ, 730 mμ;
2-[2-(3-carbethoxymethyl-4-oxo-2-thiono-5-thiazolidinylidene)-2-
methoxyethylidene]-4-[2-(3-ethyl-2-benzoxazolinylidene)-ethylidene]-3-
methyl-5-thiazolidinone, m. 235°, 18%, green, 700 mµ, 710 mµ;
3-allyl-2-(2-(3-ethyl-4-oxo-2-thiono-5-thiazolidinylidene)-2-
ethoxyethylidene]-5-[2-(3-ethyl-2-benzothiazolinylidene)-1-
methylethylidene]-4-thiazolidinone, m. 212°, 10%, green, 685 mμ,
640 and 680 mu; and 3-allyl-2-[2-(3-allyl-4-oxo-2-thiono-5-
thiazolidinylidene)-2-methoxyethylidene]-5-[2-(3-ethyl-2-benzot
hiazolinvlidene)-1-ethvl-ethvlidene)-4-thiazolidinone, m. 199°,
45%, green, 620 and 680 mm, 620 and 680 mm. From
4-(1-ethoxyethylidene)-2-ethylthio-2-thiazolin-5-one (prepared by heating
1.0 g. N-dithiocarbethoxyglycine, 10 ml. Ac20, and 5.0 ml. MeC-(OEt)3)
and the appropriate quaternary salt were prepared:
2-[2-ethoxy-2-(2-ethylthio-5-oxo-2-thiazolin-4-ylidene)ethylidene]-4-[2-(3-
ethvl-2-benzothiazolinvlidene)ethvlidene]-3-methvl-5-thiazolidinone, m.
251°, green, 640 and 710 mu;
2-[2-ethoxy-2-(2-ethylthio-5-oxo-2-thiazolin-4-ylidene)ethylidene]-5-[2-(3-
ethyl-2-benzothiazolinylidene)ethylidene]-3-ethyl-4-thiazolidinone, m.
227°, dark-green, 540 and 690 mµ, 710 mµ.
4-(1-Ethoxyethylidene)-2-phenyl-2-oxazolin-5-one and a quaternized
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merocyanine dye vielded 2-[2-ethoxy-2-(5-oxo-2-phenyl-2-oxazolin-4-
vlidene)ethvlidenel-4-[2-(3-ethvl-2-benzot
hiazolinylidene)ethylidene]-3-methyl-5-thiazolidinone, m. 277°,
green, 700 mm. Refluxing 0.9 g. of
3-carbethoxymethyl-5-[1-ethoxy-2-(3-ethyl-2-
benzothiazolinylidene)ethylidene]rhodanine in 20 ml. EtOH with 0.45 q. KOH
in 10 ml. H2O on the steam bath for 75 min., followed by acidification
with HCl, vielded 0.6 g. 3-carboxymethyl-5-[(3-ethyl-2-
benzothiazolinylidene)acetyl]-4-hydroxy-2-thiono-4-thiazoline, m.
220°, rust, 510 mm. Similarly prepared were:
3-carboxymethyl-5-[(1-ethyl-2(1H)-quinolylidene)acetyl]-4-hydroxy-2-thiono-
4-thiazoline, m. 237°, violet, 520 mµ, and
3-allyl-5-[(3-ethyl-2-benzothiazolinylidene)acetyl]-4-hydroxy-2-thiono-4-
thiazoline, m. 199°, red, 510 mµ, 510 mµ.
857981-74-9P, 3-Thiazolidineacetic acid,
5-[2-(1-ethylnaphtho[1,2-d]thiazolin-2-ylidene)-1-methylethylidene]-2'-
thioxo-2,5'-(2-ethoxyacetylene)bis[4-oxo-, diethyl ester
RL: PREP (Preparation)
  (preparation of)
857981-74-9 CA
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3-Thiazolidineacetic acid, 2-[1-ethoxy-2-[3-(2-ethoxy-2-oxoethy])-4-oxo-2-thioxo-5-thiazolidiny]ethenyl]-5-[2-(1-ethylnaphtho[1,2-d]thiazol-2(1H)-ylidene)-1-methylethylidene]-4-oxo-, ethyl ester (CA INDEX NAME)

ANSWER 56 OF 59 CA COPYRIGHT 2009 ACS on STN

50:44536 CA

50:8605b-d

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TITLE:
                         Synthesis of derivatives of thiazolidone having a
                         biological interest. II. Derivatives of
                         2,4-thiazolidinedione 2-hydrazone preparable from
                         p-acetamidobenzaldehyde thiosemicarbazone
AUTHOR(S):
                         Vladzimirskava, E. V.; Turkevich, N. M.
CORPORATE SOURCE:
                         Med. Inst., Lvov
                         Zhurnal Obshchei Khimii (1955), 25, 2150-4
SOURCE:
                         CODEN: ZOKHA4: ISSN: 0044-460X
DOCUMENT TYPE:
                         Journal
LANGUAGE:
                         Unavailable
    cf. C.A. 49, 14737i. Heating 5 g. p-acetamidobenzaldehyde
     thiosemicarbazone with 2.35 g. C1CH2CO2H and 20 ml. AcOH with 25-27
     millimoles of an aldehyde 30 min. at reflux, followed by cooling and
     adding aqueous NaOAc gave the 5-arylydine derivs. of 2,4-thiazolidinedione
     2-(p-acetamidobenzylidene)hydrazones. Thus were prepared: 92.4%
     2,4-thiazolidinedione 2-(p-acetamidobenzylidene)hydrazone, decompose
     294°; 80% 5,5'-benzylidenebis[2-[2-(p-
```

ACCESSION NUMBER:

ORIGINAL REFERENCE NO.:

acetamidobenzylidene)hydrazono|-4-thiazolidinone} (I), m. 263°; 5-anisylidene-2,4-thiazolidinedione 2-(p-acetamidobenzylidene)-hydrazone, decompose 230°: 89% 5-(o-chlorobenzylidene) analog, decompose 230°; 5-cinnamylidene analog, 85%, decompose 190°; the 5,5'-salicylidene analog of I, 86%, decompose 230°; 82% 5-(p-acetamidobenzylidene) analog, decompose 275°.

857961-51-4P, 2,4-Thiazolidinedione, 5,5'-salicylidenebis-, 2-azine with 4'-formylacetanilide RL: PREP (Preparation) (preparation of)

RN 857961-51-4 CA

CN Acetamide, N-[4-[[2-[5-[(2,4-dioxo-5-thiazolidiny1)(2hydroxyphenyl)methyl]-4,5-dihydro-4-oxo-2thiazolyl]hydrazinylidene]methyl]phenyl]- (CA INDEX NAME)

L6 ANSWER 57 OF 59 CA COPYRIGHT 2009 ACS on STN 49:84208 CA

ACCESSION NUMBER:

ORIGINAL REFERENCE NO.: TITLE:

49:15862g-i,15863a-d 5-Alkoxymethylenerhodanines and their reactions with

AUTHOR(S):

rhodanines Lo, Chien-Pen; Croxall, W. J.

CORPORATE SOURCE: SOURCE:

Rohm & Haas, Philadelphia, PA Journal of the American Chemical Society (1954), 76,

4166-9

CODEN: JACSAT; ISSN: 0002-7863

Journal

DOCUMENT TYPE: LANGUAGE: OTHER SOURCE(S):

Unavailable CASREACT 49:84208

The reaction of rhodanines unsubstituted in the 5 position (I) with alkyl orthoformates in the presence of Ac20 yielded 5-alkoxymethylenerhodanines (II). The condensation of I and II in the presence of a tertiary amine gave the amine salt of 5.5'-methylidynebisrhodanines (III) which upon treatment with HCl vielded the III. The acidicic property of the III is believed to be the result of the stabilization of the enolate ion by resonance. That the enolate ions are actually hybrids of 2 extreme resonant forms is supported by expts. This 2-step synthesis furnishes a satisfactory method of preparation of 3,3'-unsym. substituted 5,5'-methylidynebisrhodanines which have not been previously reported in the literature. 3-(3,5,5-Trimethylhexyl)rhodanine (IV), m. 41-3°, was prepared in 59% yield by the method of Redemann, et al. (C.A. 42, 1567d). Rhodanine (140 g.), 200 cc. HC(OEt)3, and 300 cc. Ac2O refluxed 17.5 h., the mixture cooled, and the wine-red crystallization deposit (118 q.), m.

152-5°, washed with AcOH and recrystd. from AcOH gave 60% 5-ethoxymethylenerhodanine (V), m. 157-8°. Similarly was prepared all

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the 5-methoxymethylene analog, m. 197-8°, in 35% yield. By the
     same method were prepared the following analogs (m.p. and % vield given):
     3-Me derivative (VI) of V, 132-3°, 57; the 5-ethoxymethylene derivative of
    IV, 39-41°, 47; the 3-Phderiv. (VII) of V, 153-5°, 68; and
    3,3'-ethylenebis(5-ethoxymethylenerhodanine) (VIII), 207-9°, 59.
     VI (4 g.), 3 g. 3-methylrhodanine (IX), 3 cc. Et3N, and 20 cc. Me2CO
     refluxed 1 h., the mixture cooled, and the product washed with C6H6 and
     dried vielded 5.5 g. Et3N salt (X) of
     5.5'-methylidynebis(3-methylrhodanine) (XI), m. 228-9°. Similarly
     were prepared the following amine salts of XI (amine, m.p., and % yield
     given): BuEtCHCH2NMe2, 146-7°, 44; PhCH2NMe2 (XII), 216-17°,
     34; (HOCH2CH2)3N, 188-90°, 45; 1-methylmorpholine, 243-4°,
     10; all amine salts were crystalline and melted with decomposition, they were
     purple except XII which was green. X (3.3 g.) in 100 cc. AcOH treated
     with 1 cc. concentrated HCl, the mixture heated on the steam bath and then
cooled,
     and the resulting solid washed with AcOH gave 2.5 g. (100%) XI, red solid,
     m. 173-4°. XII (1 g.) gave similarly with HCl 0.7 g. XI, m.
     173-4°. VI (4 g.), 4 g. 3-phenylrhodanine (XIII), 3 cc. Et3N, and
     20 cc. Me2CO refluxed 1.5 h. vielded 6.4 g. (88%) Et3N salt of
     3-methyl-3'-phenyl-5,5'-methylidynebisrhodanine (XIV), purple crystals, m.
     230-1° (decomposition), which treated with HCl yielded 2.3 g. (98%) XIV,
     red solid, m. 177.5-8.5°. VII condensed with IX in the presence of
     Et3N yielded 94% Et3N salt of XIV, m. 231° (decomposition), which
     treated with HCl gave XIV, m. 148-9°. VIII (3 g.), 3 g. IX, 3 cc.
     Et3N, and 30 cc. Me2CO gave similarly 4 g. (50%) bis-Et3N salt of
     3,3'-ethylenebis[5-(2-thioxo-4-oxo-3-methyl-5-
     thiazolidinylmethylene)rhodanine] (XVI), purple solid, m. 235-6°
     (decomposition), which treated with HCl yielded XVI, m. 122°. VIII (3
     q.), 4 q. XIII, 3 q. Et3N, and 30 cc. Me2CO gave in the same manner 3.4 q.
     (37%) bis-Et3N salt of 3,3'-ethylenebis[5-(2-thioxo-4-oxo-3-phenyl-5-
     thiazolidinylmethylene)rhodanine] (XVII), brown solid, m. 253-4°
     (decomposition), which treated with HCl gave XVII, red solid, m. 197°
     (decomposition).
    854181-97-8P, Benzylamine, N,N-dimethyl-, compound with
     5,5'-methylidynebis[3-methylrhodanine]
     RL: PREP (Preparation)
       (preparation of)
    854181-97-8 CA
    Benzylamine, N, N-dimethyl-, compd. with
     5,5'-methylidynebis[3-methylrhodanine] (5CI) (CA INDEX NAME)
     CM
          1
     CRN 854181-96-7
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RN

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CMF C9 H10 N2 O2 S4

CM 2

CRN 103-83-3 CMF C9 H13 N

Me2N-CH2-Ph

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L6 ANSWER 58 OF 59 CA COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER:
                           47:3315 CA
ORIGINAL REFERENCE NO.: 47:566e-i
TITLE:
                            Rhodanine derivatives in reactions of the Michael type
AUTHOR(S):
                            Bradsher, Charles K.; Brown, Frances C.; Grantham, R.
                            Jack
CORPORATE SOURCE:
                            Duke Univ., Durham, NC
SOURCE:
                            Journal of the American Chemical Society (1951), 73,
                            5377-9
                            CODEN: JACSAT; ISSN: 0002-7863
DOCUMENT TYPE:
                            Journal
LANGUAGE:
                            Unavailable
GI For diagram(s), see printed CA Issue.
AB cf. C.A. 44, 4464i. AcH (8.8 g.) in 100 cc. EtOH added to 53.5 g.
     rhodanine (I) in 90 cc. 5 M NH4OH at 70°, then 30 g. NH4Cl in a
     small amount of water, the mixture stirred 80 min. at 70°, cooled, and
     poured into 1.2 l. N HCl yielded 19.7 g.
     1,1-bis(2-thio-4-ketotetrahydro-5-thiazolyl)ethane (II), pale vellow
     needles from EtOH, m. 246-9° (decomposition). I (26.6 g.) in 120 cc.
     AcOH treated with 4.4 g. AcH and 40 g. anhydrous NaOAc, the mixture refluxed
     3-5 hrs., and poured into 600 cc. cold water yielded 16.6 g. II, pale
     yellow prisms from AcOH, m. 246-8°. 5-Ethylidenerhodanine in 80
     yearlow prisms from Acon, m. 240-0. 3 Schylidenerhodanine in 80 cc. EtOH added to 40 cc. EtOH at 65-70° containing 2.2 g. 1, 1.6 cc. NH4OH, and 3 cc. water, 5 min. later 1.6 g. NH4C1 added, the mixture heated 2 hrs. at 65-70°, cooled, and poured into 650 cc. ice-cold N HC1
     yielded 3.3 g. II, pale yellow crystals from alc., m. 247-8.5°. II
     (14.6 g.) in 125 cc. water containing 30 g. NaOH refluxed 3 hrs., the cooled
     solution acidified with HC1 and extracted with Et2O and CH2C12, the solvents
     removed on the steam bath, the residue (probably crude
     \alpha, \alpha'-disulfhydryl-\beta-methylglutaric acid) dissolved in 300
     cc. 10% NaOH, heated 70 hrs. on the steam bath with the portionwise addition
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of 50 q. Raney Ni-Al alloy, the alkaline solution decanted, strongly acidified, and extracted with Et20 yielded 2.3 g. β-methylglutaric acid, fine white needles from C6H6-petr. ether and then cyclohexane, m. 84-4.5°; dianilide, m. 213.5-14° (fine white needles from EtOH); di-p-toluide, fine white needles from EtOH, m. 221-21.5°. For other compds. of the type [OC.NH.C(:S).S.CH]2CHR obtained by the NH4OH-NH4C1 method, R, yield (%), and m.p. are: Et, Et, 33, 208-12°; Pr, 55, 217.5-18.5°; Bu, 38, 190-5°; Am, 27, 189-90.5°; hexyl, 33, 187-90°; C9H19, 22, 167-8°. 533885-79-9P, Rhodanine, 5,5'-ethylidenedi-

RL: PREP (Preparation)

(preparation of)

RN 533885-79-9 CA

CN 4-Thiazolidinone, 5,5'-ethylidenebis(2-thioxo- (CA INDEX NAME)

OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)

L6 ANSWER 59 OF 59 CA COPYRIGHT 2009 ACS on STN ACCESSION NUMBER: 45:38208 CA

ORIGINAL REFERENCE NO.: 45:6519c-i,6520a-b

TITLE: Cyanine dyes as photographic emulsion sensitizers

INVENTOR(S): Dovle, Frank P. PATENT ASSIGNEE(S): Ilford Ltd. DOCUMENT TYPE: Patent LANGUAGE: Unavailable

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE 19500712 GB 1948-13542 19480519

Cyanine dyes are prepared by condensing, in the presence of a base, a compound of the general formula XCH: C(R')CHO, where R' is CN or CO2R, X is RS or RNH, and R is an alkyl or aryl group, with a heterocyclic N compound containing a reactive methylene group. Thus, HC(ONa):CHCO2Et (I) 10 in H2O 100 parts was added to PhNH2 7, Ac20 40, and H20 160 parts to give HC(:NPh)CH2C02Et (II), yellow solid, m. 105°. To II 30, dry Et20 100, and HCO2Et 11.7 parts is added powdered Na 3.62 under Et20 200 parts, the whole is refluxed 8 hrs., poured into H2O under CO2, the Et2O layer separated, the H2O layer extracted with Et20, and the combined Et20 solution dried, concentrated,

and distilled to give HC(:NPh)CH(CHO)CO2Et (III), b8 197°, vellow crystals (no m.p. given). I 14, EtSH 25, and dry Et2O 25 parts were saturated with HCl, the mixture was kept overnight, poured into dilute Na2CO3 solution, the

Et.20 separated, the H2O layer extracted, the Et2O layers combined, dried, concentrated, and

distilled to give EtSCH:CHCO2Et (IV), b30 160-5°; IV 11, HCO2Et 6, and

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Na powder 1.5 parts in dry Et20 were refluxed 24 hrs. to give
EtSCH:C(CHO)CO2Et (V), b7 110-35°. HC(ONa):CHCO2Pr 13 in H2O 66
was added with stirring to PhNH2 8 in AcOH 43 and H2O 186 parts to give
HC(:NPh)CH2CO2Pr (VI), sticky yellow solid; VI 51 in dry Et2O 100 and
HCO2Et 20 parts was added in portions to Na powder 5 in dry Et20 200 parts
and the whole was refluxed 8 hrs. to give HC(:NPh)CH(CHO)CO2Pr (VII),
vellow solid, m. 132°. In a similar fashion was prepared from
HC(ONa):CHCN, HC(:NPh)CH2CN, vellow solid, m. 119° and
HC(:NPh)CH(CHO)CN (VIII), yellow solid, m. 183° (from EtOH). III
10, 2-methylbenzothiazole-EtI (IX) 30, and C5H5N 200 parts were refluxed 3
min., 6 parts Et3N was added, the whole cooled, and poured into H2O to
give bis-2 - (3 - ethylbenzothiazole) - γ -
carbethoxypentamethinecyanine iodide (X), dark green crystals, m.
230° (with decomposition). (All dyes were recrystd. from MeOH and
melted with decomposition) X was also obtained by refluxing V
2,2-methylbenzothiazole 6, and C5H5N 15 parts for 15 min. and pouring the
whole into H2O. When incorporated in a gelatin-AgBr emulsion, X imparts a
band of sensitivity extending to 6800 A. with a maximum at 6400 A.
similar fashion, III and quinaldine-EtI gave
bis-2-(1-ethylquinoline)-γ-carbethoxypentamethinecvanine iodide.
blue-green crystals, m. 253°, with a sensitivity extending to 7200
A. with a maximum at 6900 A.; III and 2.3.3-trimethyl-3H-pseudoindole-MeI
gave bis-2-(1,3,3-trimethylindolenine)-γ-
carbethoxypentamethinecyanine iodide, dark green-blue crystals, m.
207°; III and 2-methylbenzothiazole 2-hydroxyethiodide (XI) (in
this and subsequent examples the condensation was effected in Ac20 with
Et3N) gave bis-2-[3-(2-acetoxyethyl)benzothiazole]-y-
carbethoxypentamethinecyanine iodide, dark blue solid, m. 110°;
III and 2-methyl-5-chlorobenzothiazole 2-hydroxyethiodide gave
bis-2-[3-(2-acetoxyethyl)-5-chlorobenzothiazole]-γ-
carbethoxypentamethinecyanine iodide, dark green crystals, m. 154°;
VII and XI gave bis-2-[3-(2-acetoxyethyl)benzothiazole] - γ -
propylcarboxypentamethinecyanine iodide, dark blue-green crystals, m.
150°, with a weak band of sensitivity extending to 6900 A. with a
maximum at 6500 A.; VII and quinaldine 2-hydroxyethiodide gave
bis-2-[1-(2-acetoxyethyl)quinoline] - y -
propylcarboxypentamethinecyanine iodide, dark blue-green crystals, m.
124°; VIII and IX gave bis - 2 - (3- ethylbenzothiazole) - y
- cvanopentamethinecvanine iodide, dark brown crystals with a green
reflex, m. 268°, with a weak band of sensitivity extending to 6600
A. with a maximum at 6350 A.; VIII and 3-ethylrhodanine gave
\alpha, \gamma-bis-5-(3-ethyl-2-thio-4-ketotetrahydrothiazole) - \beta -
cyanopropene, blue crystals with a bright reflex, m. 220°; and VIII
and XI gave bis-2-[3-(2-acetoxyethyl)benzothiazole] - y -
cvanopentamethinecvanine iodide, dark blue crystals, m. 243°.
2-Methylbenzoselenazole 19.6 and p-MeC6H4SO3Me 18.6 parts were fused at
100° for 3 hrs., III 10 in Ac2O 200 parts was added, the whole
boiled 0.5 hr., and excess Et3N added, to give
bis-2-(3-ethylbenzoselenazole) - \gamma - carbethoxypentamethinecyanine
iodide, green crystals, m. 150°.
857959-72-9P, 5-Thiazolidineacrylonitrile,
3-ethyl-α-[(3-ethyl-4-oxo-2-thioxo-5-thiazolidinyl)methyl]-4-oxo-2-
RL: PREP (Preparation)
   (preparation of)
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5-Thiazolidinepropanenitrile, 3-ethyl-α-[(3-ethyl-4-oxo-2-thioxo-5-

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RN

857959-72-9 CA

thiazolidinyl)methylene]-4-oxo-2-thioxo- (CA INDEX NAME)

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(FILE 'HOME' ENTERED AT 10:24:53 ON 31 JUL 2009)

FILE 'REGISTRY' ENTERED AT 10:25:02 ON 31 JUL 2009 L1 STRUCTURE UPLOADED

L2 1 S L1 SAM L3 15 S L1 FULL

L4 STRUCTURE UPLOADED L5 1351 S L4 FULL

FILE 'CA' ENTERED AT 10:28:16 ON 31 JUL 2009 L6 59 S L5

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